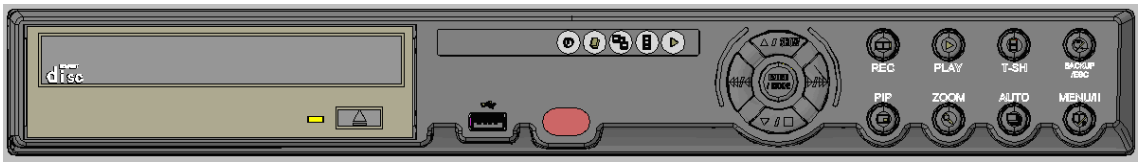
— 8/16CH DVR —



This document contains preliminary information and subject to change without notice.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of unprotected “Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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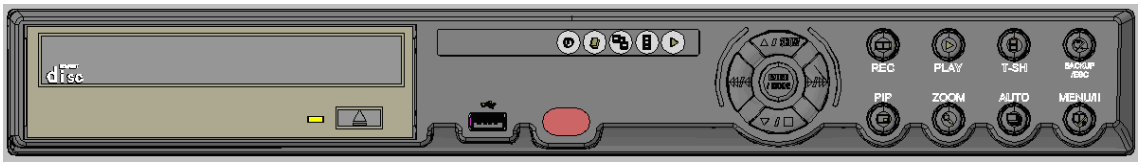
CHAPTER 1 PACKING DETAIL AND INSTALLATION

1-1 PACKING



1. DVR

2. Quick Start

3. IR Remote Control
＊16CH: Pressed "DVR1" Button before use

4. Battery × 2

5. CD

6. Hard Disk Mount x2

7.Screws x20

8. Power Adaptor

9. Power Cord

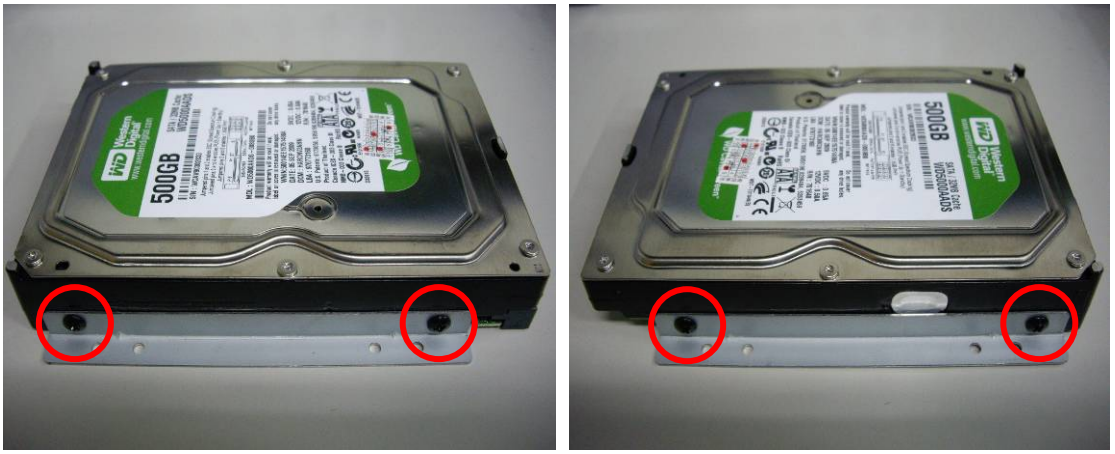
10. DB25 Connecter
(8CH only)

11. SATA cord × 3 (16CH)
SATA cord × 2 (8CH)

Note: Standard shipping products do not include HDD

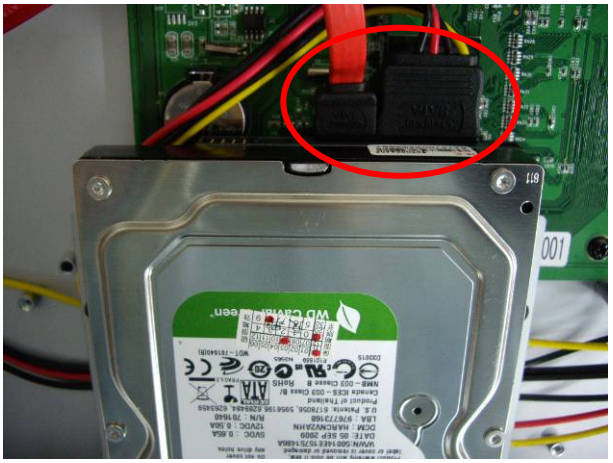
1-2 Hard Disk Installation

Step 1) Fix the HDD to rack mount with the screws as indicated.



Step 2) Place the HDD on the HDD plate and screw it as indicated.

Step 3) Connect the power and the SATA cables as indicated.

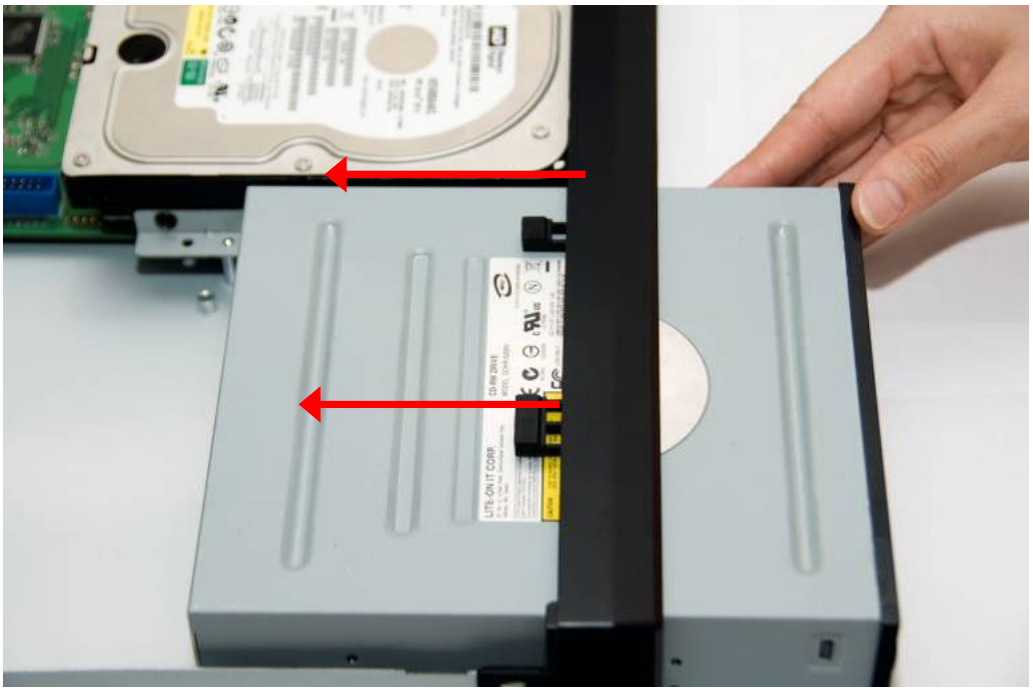


Note: After installation, please initialize Hard Disk before starting to record. For more detailed information, please check out User Manual 4-9 System Tools for reference.

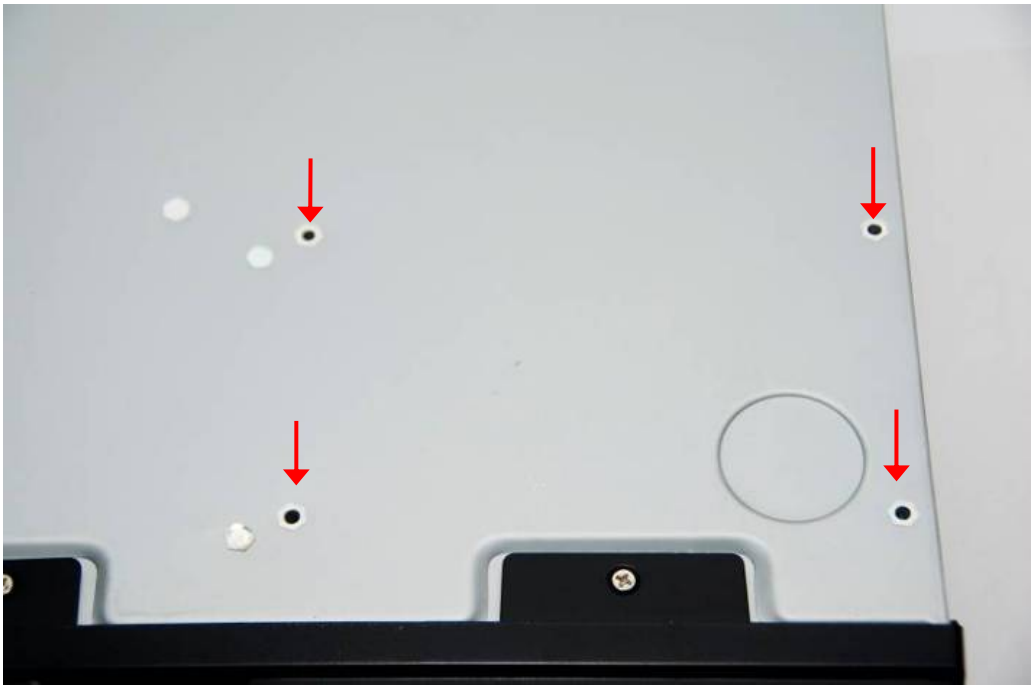
1-3 DVD-RW Installation(Only Support DVD/RW)

Step 1) Remove the front cover from DVR.

Step 2) Put the DVD-RW into the DVR as indicated by the arrow.



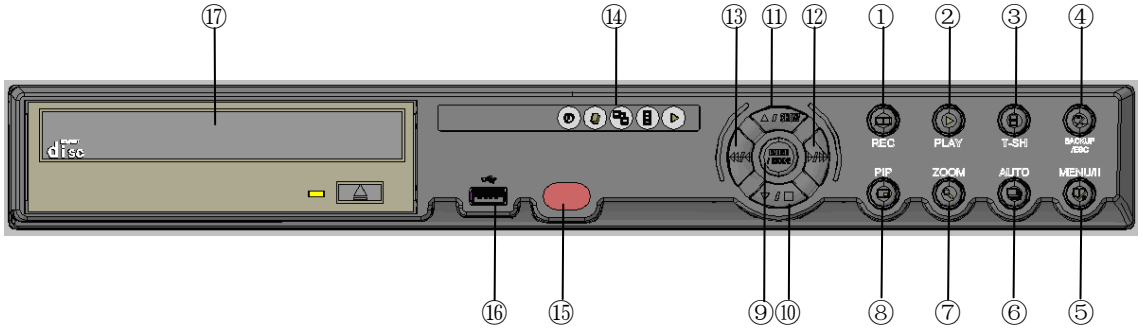
Step 3) Screw the bottom of the DVR as indicated to fix the DVD-RW.



Step 4) Connect the power and the SATA cables.

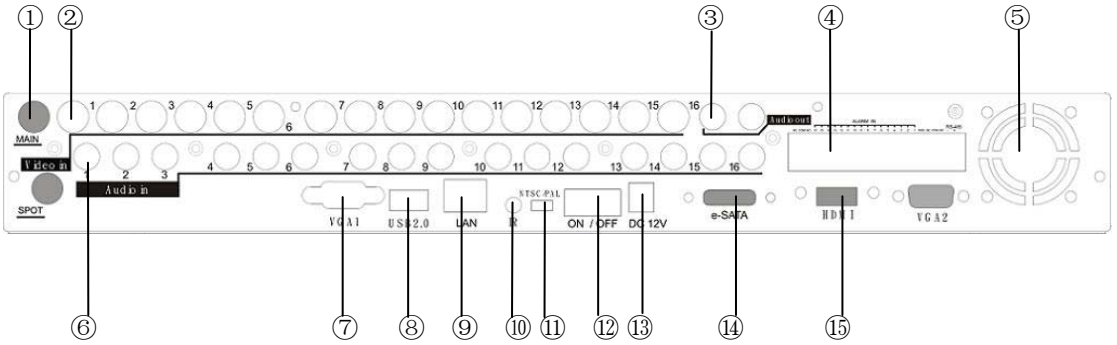
CHAPTER 2 PANEL LOCATION

2-1 FRONT PANEL CONTROLS

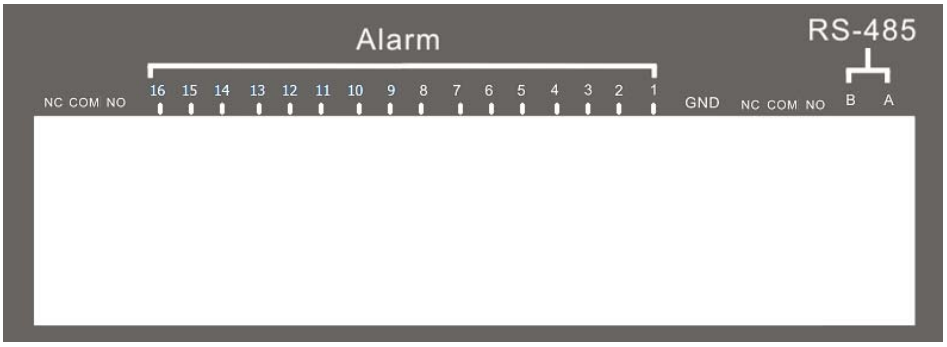


Control Keys	Description
① REC	Start or stop recording.
② PLAY	Play back in normal speed.
③ T-SH	Display the search menu.
④ BACKUP/ESC	In LIVE mode, press to display the BACKUP menu. In SETUP mode, press to return to previous page.
⑤ MENU/ ▮▮	In LIVE mode, press to display menu. In PLAYBACK mode, press to pause playback.
⑥ AUTO	In LIVE mode, cycle through all channels in full screen.
⑦ ZOOM	In LIVE or PLAYBACK mode, enlarge the display of a channel.
⑧ PIP	In LIVE mode, display with picture in picture format.
⑨ ENTER/MODE	In SETUP mode, press to enter values. In PLAYBACK mode, switch between full, quad, 9-channel, 16-channel display in order.
⑩ ▼ / ■	In SETUP mode, press to move cursor down. In PLAYBACK mode, press to stop playing back.
⑪ ▲ / SLOW	In SETUP mode, press to move cursor up. In PLAYBACK mode, press to slow down.
⑫ ► /►►	In SETUP mode, press to increase value. In PLAYBACK mode press to play forwards.
⑬ ◄ /◄◄	In SETUP mode, press to reduce value. In PLAYBACK mode, press to play rewind.
⑭ LED Display (From left to right)	**Power**: Power is on. **HDD**: Hard disk is in use. **LAN**: Connected to the internet *(in red)*: Remote user logged in. **REC**: Recording. **PLAY**: Playing back.
⑮ IR Sensor	Input sensor for the remote control.
⑯ USB 2.0 Port	Port for USB external devices (USB flash drive devices use, the mouse behind the back of the USB ports installed)..
⑰ DVD Writer	Optional DVD-RW backup device.

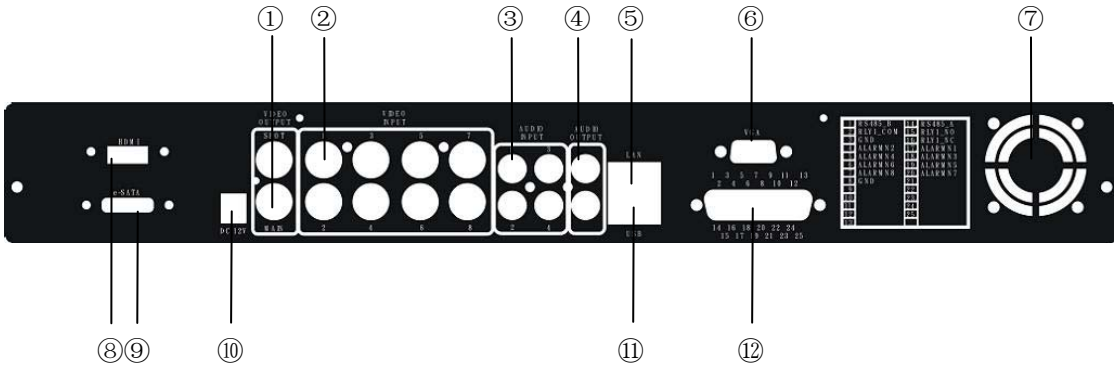
2-2 16CH REAR PANEL CONNECTIONS



①MAIN monitor (SPOT monitor)	BNC port for the main monitor. Alternate display full screen image of all installed cameras in sequence.
② VIDEO IN	BNC input ports for cameras, 16 in total.
③ AUDIO OUT	RCA output port for audio signal.
④ EXTERNAL I/O	EXTERNAL I/O port. *(see below for pin definition)*
⑤ Fan	DC 12V 40mm X 40mm fan.
⑥AUDIO IN	16 RCA input port for audio signal.
⑦VGA1	VGA port.
⑧USB 2.0 port	USB port (Device USB Mouse).
⑨LAN	Network port.
⑩IR JACK	IR extension cable jack.
⑪NTSC/PAL	Switch NTSC/PAL Video System.
⑫ON/OFF	Power Switch.
⑬DC 12V	Socket for a DC 12V input.
⑭e-SATA	External SATA hard disks port for expanding recording space.
⑮HDMI	HDMI port.(Optional)



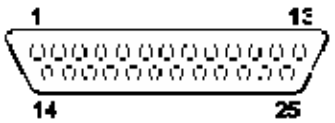
2-3 8CH REAR PANEL CONNECTORS



①MAIN monitor (SPOT monitor)	BNC port for the main monitor. Alternate display full screen image of all installed cameras in sequence.
② VIDEO IN	BNC input ports for cameras, 8 in total.
③ AUDIO IN	RCA input port for audio signal. There are 4 ports available. (corresponding to channel 1 to 4)
④ AUDIO OUT	RCA output port for audio signal.
⑤ LAN	Network port
⑥ VGA	VGA port
⑦ Fan	DC 12V 40mm X 40mm fan
⑧ HDMI	HDMI port (Optional)
⑨ e-SATA	External SATA hard disks port for expanding recording space
⑩ DC 12V	Socket for a DC 12V input.
⑪USB 2.0 port	USB port(Device USB Mouse)
⑫EXTERNAL I/O	EXTERNAL I/O port *(see below for pin definition)*

Note: Device will automatically detect NTSC/PAL video signal through CH1 input and adjust the system accordingly

DB 25 DEFINITION



1.	RS485_B	14.	RS485_A
2.	RLY1_COM	15.	RLY1_NO
3.	GND	16.	RLY1_NC
4.	ALARMN2	17.	ALARMN1
5.	ALARMN4	18.	ALARMN3
6.	ALARMN6	19.	ALARMN5
7.	ALARMN8	20.	ALARMN7
8.	GND	21.	
9.		22	
10.		23.	
11.		24.	
12.		25.	
13.			

CHAPTER 3 LIVE, PLAYBACK AND PTZ OPERATIONS

The IR remote control and mouse operate differently under each mode; this chapter describes the functions of them under three different modes: LIVE, PLAYBACK and PTZ.

3-1 LIVE Mode

You can monitor all the channels, listen to audio signal and have some related operations under *LIVE* mode. This paragraph describes the IR remote control, mouse operation and on screen graphical icons under LIVE mode.

Table 3-1.1 Functions of remote control under LIVE mode

Button	Description
REC	Start/Stop recording.
PLAY	Start playing back the most recently recorded segment.
ENTER/MODE	Switch to full screen or multi split display.
MENU/ II	Enable/ Disable setup Menu.
BK-UP	Enable/ Disable backup menu.
ESC	Return last menu.

Table 3-1.2 Graphical icons that will display after right-clicking your mouse under LIVE mode.

Icon	Description
	Resting the cursor on this icon will bring up the following four menu icons.
	Main menu.
	Search menu.
	Backup menu.
	PTZ mode.
	Turn on/off recording.
	Playback.
	Resting the cursor on this icon will bring up the following five display icons.
	FREEZE.
	PIP mode
	ZOOM, double the screen size
	AUTO-sequence
	LOCK, activate the key lock.
	Full screen display.
	Quad display.
	9-channel display
	13-channel display
	16-channel display

Table 3-1.3 Description of on screen graphical icons in LIVE mode

Icon	Description
	Recording is on
	Schedule Recording is on
	Live Audio is on
	Live Audio is off
	Motion detected on the channel
	Video loss detected on the channel
	USB device detected
	Connected to the LAN cable.
	AUTO-seq is on
	Freeze is on, screen is frozen
	LOCK is on
	PTZ control is on
	Shows the current hard disk space has been used (99% mean used 99%, remain 1%)
	Lower right of each CH will show the current time

Icon	Description
	Image quality (High/Low)
	Full screen
	Record
	Record and snap shot file saving path setup
	Enable / Disable Shortcut Toolbar

3-2 PLAYBACK Mode

Switch to PLAYBACK mode by pressing “PLAY” under the LIVE mode, the graphical icon will show up on the upper center of the screen and the operation panel (see below picture) will show up at right lower corner of the screen. You can drag the panel by mouse to place it on any location of your screen.

Table 3-2.1 Remote control functions under the PLAYBACK mode

Button	Description
ENTER / MODE	Switch to full screen or multi split display.
MENU / ▮▮	Turn on/off PAUSE.
PLAY	Play back at normal speed.
▲ / SLOW	Play back at slower speed. The speed will be slowed to 1/2, 1/4, 1/8, by each pressing of the button till the slowest limitation of the normal speed.
◀◀ / ◄	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▶▶ / ►	Fast forward. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▼ / ■	Stop playback.

Table 3-2.2 The mouse operation under the PLAYBACK mode.

Icon	Description
	「◀◀ / ◀」 Fast rewind
	「▶▶ / ▶」 Fast forward
	Play/pause
	「▲ **/ SLOW**」，slow playback
	「▼ / ■」 stop playback
	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	9 screen display
	16-channel display
	Zoom-in display

If you want to monitor single channel, please choose a channel and click left butt on of mouse two times.

3-3 PTZ Mode

Switch to the PTZ mode by pressing “PTZ” button under the LIVE mode. The PTZ icon will appear on upper left side of screen and the control panel will appear on the down right side of screen.

Table 3-3.2 Mouse operation under the PTZ mode

Icon	Description
	Leave PTZ Mode，back to the LIVE mode
	Pre-set number N. (0~255)
	Go to pre-set number N.
	Set current PTZ location at pre-set number N.
	「TOUR」，press to activate pre-set tour＊
	「PIP」，Set current PTZ location as the start of line-scan. ＊
	「FREEZE」， Activate line-scan. ＊
	「ZOOM」，Set current PTZ location as the end of line-scan. ＊
	To move PTZ in 360°
	PTZ zoom in; PTZ zoom out
	PTZ focus in; PTZ focus out.
	PTZ IRIS open, PTZ IRIS close.
Below functions need support from specific PTZ manufacturer. Please check user manual of your PTZ for more detail.	
	AUX 1~8,「AUTO」Key ＋ Number key「1~8」
	「Backup」, Customized function。

＊ PTZ communication protocols from different brands aren’t compatible 100% sometimes. Therefore, some of these functions may be unavailable.

CHAPTER 4 MAIN MENU SETUP

To enter the main menu and set up DVR, log-in account and user password are required. The default password of the administrator is "**123456**". Please check the "Account Setup" for related setup of other log-in users.

Table 4-0.1 Some definition of virtual keyboard.

Item	Description
⇧	Switch between capital and small letters.
.?123 / ABC	Switch between numbers and letters.
Esc	Press to cancel the setup, and re-choose the login account.
⌫	Delete the last character.
⏎	Enter to identify the password. It will enter the set up menu, If the password is verified.
	Space key

Table 4-0.2 The operation of remote control under the setting menu

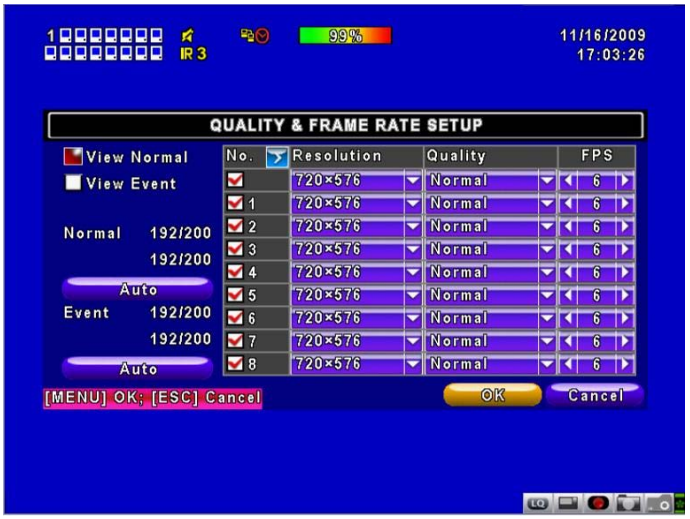
Item	Description
◄ ►	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Save setup and back to LIVE mode
ESC	Back to Upper level of menu without saving
ENTER	Enter the menu, or display virtual keyboard

*PS. The initialization of new-installed HD is required before recording, please refer to "**4-9 UTILITY SETUP**" for detail.*

4-1 RECORD SETUP

Item	Description
HDD FULL	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full 「**Stop**」: Stop Recording 「**Overwrite**」: Start to overwrite that begin from the oldest data of HDD, and continue to record.
OSD position X	Setup OSD X axis
OSD position Y	Set up OSD y axis
OSD position setup	Set up OSD axis
Video Preservation	Setup the video preservation period. Recorded video will be deleted automatically after expiry of preservation period.
Quality & Frame Rate Setup	Setup the quality and frame rate for each channel under normal recording and event recording type.

4-1.1 Quality & Frame Rate Setup



Item	Description
Normal setup/ event setup	Select recording mode
Resolution	Select recording resolution: NTSC:352x240, 704x240, 704x480 PAL:352X288,704X288,704X576
Record Type	You can setup quality and FPS separately for record type.
No.	Check/uncheck the box enable/disable selected channel recording
Quality	Select quality: Below Basic/ Basic/ Normal/ High/ Highest
FPS	Select recording frame rate.
Auto	Assign each channel with its maximum accessible fps

4-2 EVENT SETUP

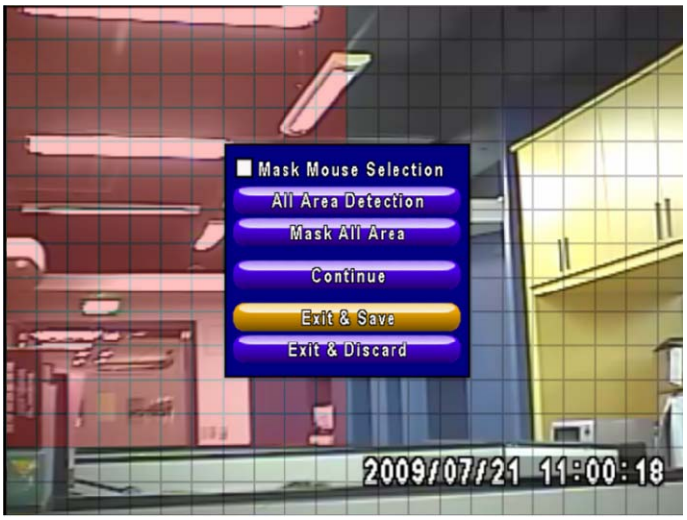
Item	Description
Motion Setup	Enter to set up motion detection
Sensor Setup	Enter to set up sensor detection

4-2.1 MOTION SETUP

Item	Description
Alarm Duration(Seconds)	When motion detect，the number of seconds continuous alarm
1~16	You can setup independently for each channel.
Enable	Check the box to Enable/Disable motion detection for each channel.
Sensitivity	Drag the white bar or press ◄ ► to set up Sensitivity from valu e 1 to 10 for each channel. The lower value you set the highe r sensitivity it will be
Motion Area Setup	Enter to setup motion detection area

4-2.1.1 MOTION AREA SETUP

The motion detection has been divided into 16x12 grids. The default detection area is full screen as it marked in transparent for local DVR and purple for remote access. Areas deselected for motion detection are marked in red for both local and remote site.



Item	Description
Mask Mouse Selection	Switch between “select” and “deselect” for cursor-dragging function
All Area Detection	Select entire screen as detection area.
Mask All Area	Deselect entire detection area.
Continue	Continue setup
Exit & Save	Save setup and leave
Exit & Discard	Cancel setup and leave

4-2.2 SENSOR SETUP

Item	Description
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels. When Sensor is detected in LIVE mode, the detected channel image will pop up in full screen display.
All Off	Set all sensor off
All Low	Set all sensor polarity low
All High	Set all sensor polarity high
Sensor Polarity	Click or press ▼ to select between HIGH, LOW voltage for triggering sensor detection or OFF to turn off polarity for each channel **Low** Polarity：Sensor has not been triggered. When connected, sensor will be turned on.. **High** Polarity：Sensor has been triggered. When connected, sensor status will be turned off.. **Off** ：Sensor is deactivated, and will not be turned on/off.

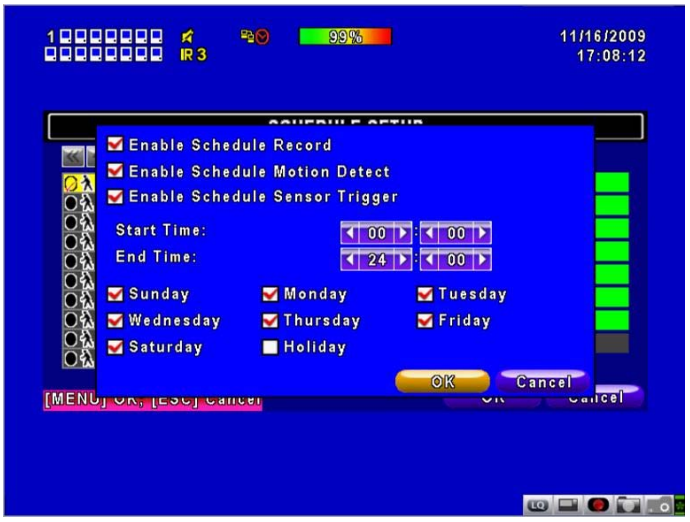
4-3 SCHEDULE SETUP

Except from starting recording manually, you can also setup the recording time by weeks and schedule including normal, motion detect, and recording type.

Item	Description
Page	Each page provides 10 schedules for setup. 5 pages in total.
Holiday Setup	Enter to setup holiday, up to 50 days, other than weekends,.
View Event/ Motion/ Sensor Setup	View Normal/ Motion/Sensor

4-3.1 Schedule Record Setup

Click on the time on the left side. The setup menu will be displayed. You can have detail setup by dates, Time and event.



4-3.2 Holiday Setup

Since holidays are different by different country and region, you can setup the holiday of your location accordingly.

4-4 CAMERA SETUP

Item	Description
1~16	You can setup independently for each channel.
Mask	Check the box to Enable/Disable mask function for LIVE mode
Sharpness	Drag the bar or press ◄ ► to adjust Sharpness of your camera from value 0 to 15. The default value is 1.
Brightness	Drag the bar or press ◄ ► to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the bar or press ◄ ► to adjust Contrast of your camera from value 1 to 255. The default value is 100.
Saturation	Drag the bar or press ◄ ► to adjust Chroma of your camera from value 1 to 255. The default value is 150.
Hue	Drag the bar or press ◄ ► to adjust Hue of your camera from value 1 to 255. The default value is 128. (**This function doesn't support at PAL system**)
Name	Set up name of each channel
Volume	Audio volume under LIVE mode and recording mode can be adjusted.

4-5 ACCOUNT SETUP

The Account Setup menu is used to provide role-based permission independently setting for each user (maximum of 4 users) to access DVR over network. The default admin account and password is **"admin"** and "**123456**"

(The default password remains the same after firmware upgrade)

Item	Description
No.	Check to activate the user's account.
Username	Set up username
Password	Set up password for each user. Password is 8-digits required and can be mixed by letters and numbers with case-sensitive. Letters can be mixed with capitals or lowercases.
Permissions	Set up Permissions for each user
Change Admin Password	Change administrator's password
Picture	Change user's picture

4-5.1 Permission Setup

The Account Setup is set to provide individual user (maximum of 4 users) role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup, Password expiry date and Mask on specific channels while playing back.

4-5.2 User Picture Setup

User can select picture wished to be changed to from hard drive.

4-6 NETWORKING SETUP

Item	Description
Connect type	Setup mode for network connection: **(ADSL、DHCP、LAN、3G).**
HTTP Setup	Enter to set up HTTP
DDNS Setup	Enter to set up DDNS
Mail Setup	Enter to set up mail
3G Setup	Enter to set up 3G network

4-6.1 NETWORKING SETUP

There are three ways to connect to the network as followed.

4-6.1.1 DHCP

When DHCP is selected, IP address will be assigned by DHCP server automatically.

4-6.1.2 LAN

Select LAN for network connection, the following information is required.

Item	Description
IP Address	Enter IP address provided by ISP
Subnet Mask	Enter IP address of Subnet Mask provided by ISP
Gateway	Enter IP address of Gate way provided by ISP
DNS	Enter DNS address provided by ISP. **(Note: The correct DNS address must be entered for DDNS function).**

4-6.1.3 ADSL

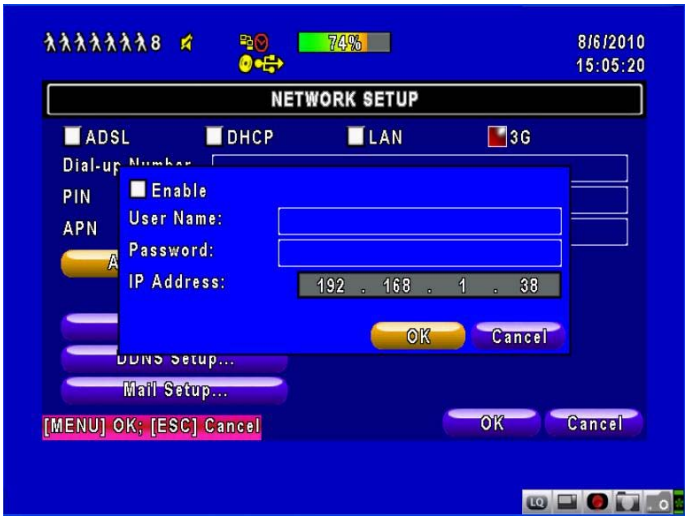
Select ADSL for network connection, the following information is required.

Item	Description
User Name	Enter user name provided by ISP
Password	Enter password provided by ISP

4-6.1.4 3G

Select 3G for network connection, the following information is required.

Item	Description
Dial-up Number	Dial-up Number，Determined as the ISP
PIN	Enter SIM card password
APN	Enter ”internet”
Advance Setting	The advanced settings (Taiwan ISP outside)



Item	Description
Enable	Enable advance setting
User Name	Enter ISP username
Password	Enter ISP password
IP Address	Enter the ISP provides a fixed IP address。 (if the client uses the Internet only need to enter a fixed IP)

PS：This feature currently only supports the Huawei 3G card

4-6.2 HTTP Setup

Item	Description
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function is activated.
Port	Enter a valid port value from 1 up to 65000. The default value is 80.
Auto	Assign each channel with its maxima accessible fps
No.	Chanel number
Quality	Set up record quality. There are below basic, basic, normal, high, highest
FPS	Set up record FPS

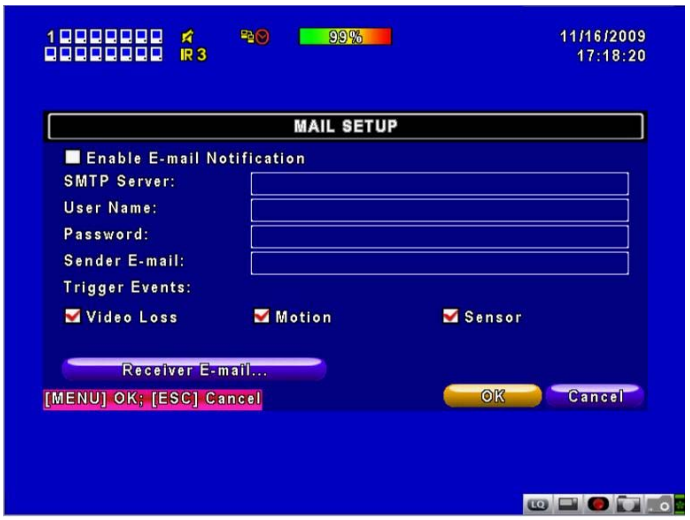
4-6.3 DDNS Setup

Item	Description
Enable DDNS	Enable/disable DDNS function.
DDNS Server	Enter the registered SMTP Server: **ez-dns＊、I-DVR.NET＊ 、DYNDNS.ORG、NO-IP.ORG、3322.ORG**
Host Name	Enter the completed registered SMTP Server. (Including username + Server) If the user name is h.264 and you choose i-dvr as your server, you should enter: h.264.i-dvr.net
User Name	Enter user name.
Password	Enter password.

＊For more detailed I-DVR.NET operation instruction, please refer to appendix Ⅰ、Ⅱ

4-6.4 Mail Setup

When event occurs (VLOSS, MOTION), email will be sent to the receiver account automatically.



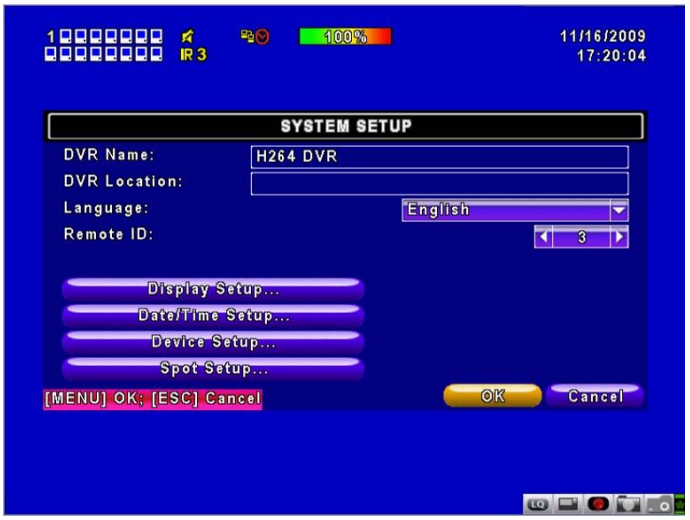
Item	Description
Enable E-mail Notification	Check the box to enable/disable E-mal Notification function.
SMTP Server	Enter to set up SMTP Server name. (Varies according to the user)
User Name	Enter to set up User Name.
Password	Enter to set up Password.
Sender E-mail	Enter to set up e-mail address of receivers.
Trigger Event	Enter to select events to send out E-mail notifications when below circumstances happen: Motion, Sensor and Vloss (Video Loss).
Receiver E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.

4-7 PTZ & RS485 SETUP

The DVR allows users to control PTZ functions of your camera. To enable PTZ function, the 485 cable should be connected to the RS-485 port of DVR.

Item	Description
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.
Protocol	Set up the protocol of PTZ cam. The supported protocol are **PELCO-P, PELCO-D, KND, LI-LIN, SAMSUNG, LG, AVTECH.**
PTZ ID	Click or press ◄ ► to set up PTZ ID. The valid ID value is from 1 to 64.
Baud Rate	Select Baud Rate for PTZ from 2400, 4800, 9600,19200
RS-485 ID	Select RS-485 ID from 1 to 64
RS-485 Baud Rate	Select RS-485 Baud Rate from 2400. 4800, 9600,19200
Keyboard	Select Keyboard.

4-8 SYSTEM SETUP



Item	Description
DVR Name	The name of DVR will be shown when users login from remote access.
DVR Location	The location of DVR will be shown when users login from remote access
Language	Click or press ▼ to select OSD language.
Remote ID	Default ID is 0. DVR is controlled by standard remote control,
Display Setup	Enter to set up Display
Date/Time Setup	Enter to set up Date/Time
Device Setup	Enter to set up Buzzer & Relay
Spot Setup	Enter to set up Spot

4-8.1 DISPLAY SETUP

Item	Description
Auto-Seq Interval	Set up duration time in seconds for the interval between channels under Auto-Seq mode.
Show OSD	Turn On / Off OSD display
Show DVR Status	Turn On / Off DVR illustration and record status display
Show Date/Time	Turn On / Off date and time display
Show Channel Name	Turn On / Off channel name display
Border Color	Set up the color of border in LIVE , PLAYBACK mode.（Red, Green, Blue）

4-8.2 DATE/TIME SETUP

Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
Date/Time Position	Choose the position of Time and Date display
Change Date & Time	Setup time and date of DVR
Time Zone Setup	Set up GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

4-8.2.1 CHANGE DATE & TIME

Setup date and time of DVR manually according to user's local time.

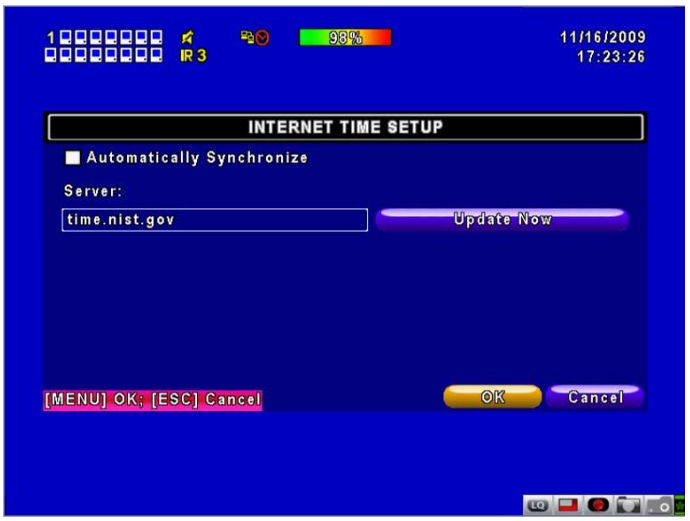
4-8.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP

Set up time zone and activate Daylight Saving Time function according to user's DVR location.

Item	Description
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13
Daylight Saving Time	Turn on/ off Daylight Saving Time

4-8.2.3 INTERNET TIME SETUP

Synchronize your DVR time with internet time server.



Item	Description
Automatic Synchronization	Check to enable DVR automatic synchronization function. Effective by this option selected, DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
Update Now	Effectively, Date and Time show on DVR will immediately correspond with those in internet server.

4-8.3 BUZZER & RELAY SETUP

Item	Description
Mouse Speed	Move the mouse cursor speed, the more the faster to the right. (Only Local machine)
Buzzer & Relay Setup	Into the buzzer & relay setup.

Item	Description
Key Tone	Enable/Disable keystrokes.
Buzzer	Enable/Disable buzzer operation when the alarm is triggered for sensor, motion and vloss (Video Loss).
Relay	Enable/Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for sensor, motion and vloss.

4-8.4 SPOT SETUP

DVR's Main Monitor output signal, do the main screen output or switch SPOT mode output

Item	Description
SPOT MODE	Channels display in spot for two different modes: Disable:The screen is same the main screen with VGA output, Enable: Spot Mode
Interval (Seconds)	The duration time in seconds for the interval between channels under SPOT mode.
Skip Video Loss Channel	Whether to skip channels without video signal.

4-9 UTILITY SETUP

Item	Description
HDD Initialization	Select to enter hard disk initialization menu. **Please stop recording before entering this menu.** Enter the menu, system will show all the data (model ,volume) of HDD that installed in DVR. Check the HDD you'd like to initialize then press "Start". HDD initialization is successful when the status shows "Succeed"
USB Initialization	Clean up all data on USB. Enter USB initialization and press YES to clean up all data on your USB. The initialization is done when it's showed "Succeed".
System Recovery	Restore system default values
Reset System Events	Reset all the recording events in DVR.
Copy Setup to USB	Copy configuration to a USB device. There will be a file named 「sdvr_conf.dat」 on your USB.
Download Setup from USB	Download configuration from a USB device into DVR.
Upgrade	Upgrade DVR through USB. Please stop recording and backup setup configuration before upgrading. **System will reboot automatically when the upgrade is completed.**

Notice! DO NOT TURN OFF POWER OR UNPLUG USB DEVICE DURING THE UPGRADE as it may cause incomplete firmware upgrade and damage to the DVR.

4-10 DIAGNOSTIC

Item		Description
Version		The current firmware version of DVR
IP		The connected IP address of DVR. If disconnected from network, the screen will display" NETWORK DISCONNECT".
MAC		MAC Address of DVR
HDD Status	**No.**	HDD number
	Volume	HDD Capacity
	Used Rate	Percentage of space used on HDD.
	Status	Shows HDD status. **USING** means the HDD is being used for recording now **GOOD/BAD** means the HDD has a known/unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it.)
	Format Time	The latest format time of HDD

CHAPTER 5 BACKUP & SEARCH

5-1 BACKUP SETUP

User can backup any segment of recorded data in a specified time frame. To do so, either a CD R/W or storage device, like USB, must be connected to the DVR. The format of backup file is *IRF* file that can be played by both “Ifileplay” and “CMS”

＊:Use the USB flash backup, the system will automatically copy "Ifileplay" to the USB

Item	Description
From	The start time of backup file
To	The end time of backup file
Device	Select USB or PC as the backup device
Free Space	The available space in your backup device. (not available for PC backup)
Refresh	Recalculate the available space of backup device. (not available for PC backup)
Required Space	Show the size of the backup file
Calculate	Calculate the size of backup file
Start	Start backup operation. **Be sure to calculate the size of backup file BEFORE operating backup.**

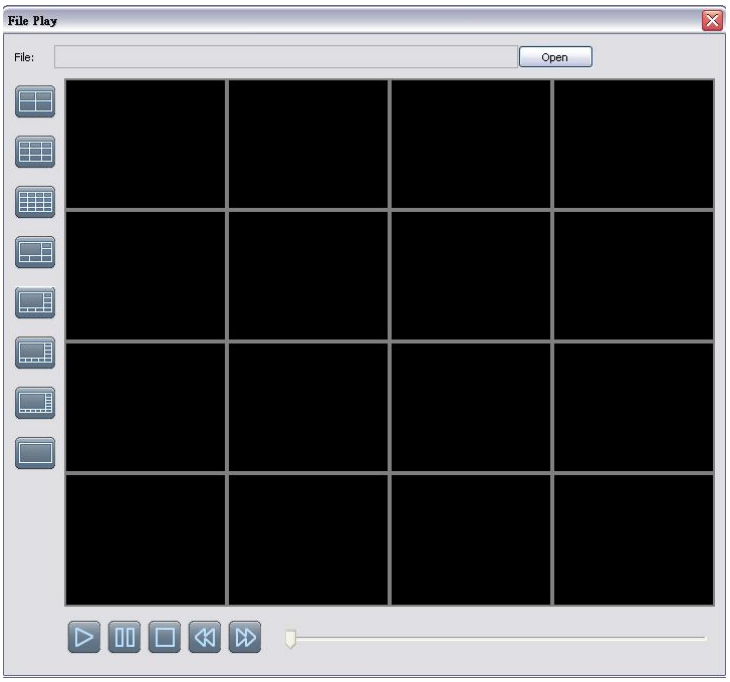
Note! Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.

iFileplay Use Method

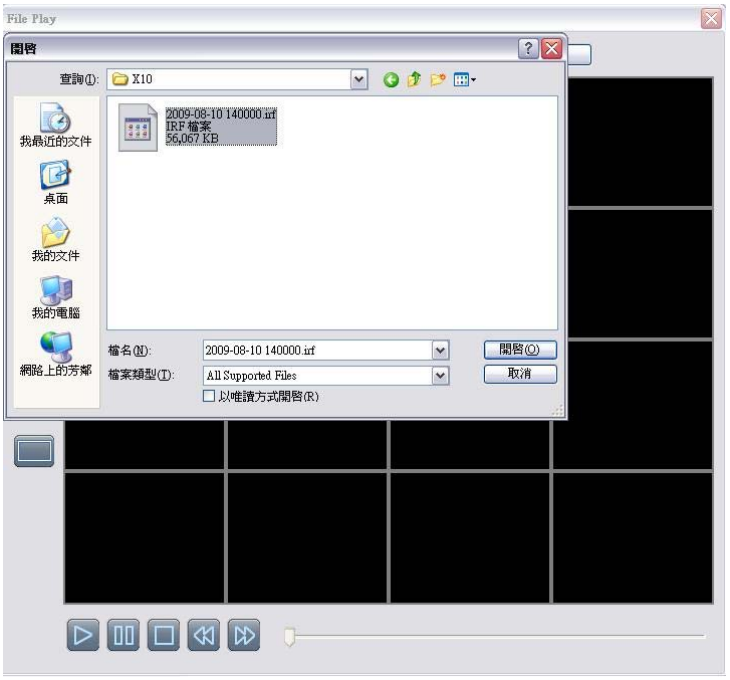
Step 1: install 「iFileplay」software to your PC. You can get「iFileplay」file from the CD with DVR Packing.

PS: When you using USB to backup file, iFileplay.exe will copy to USB with the backup file automatically.

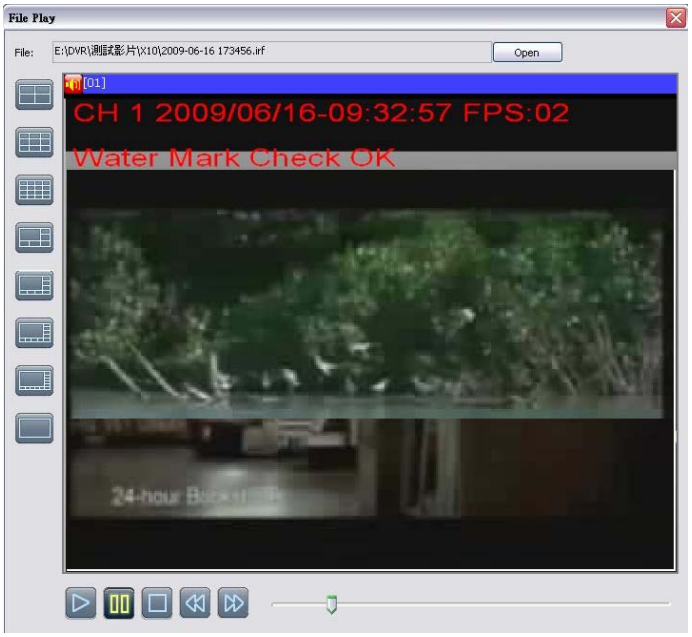
Step 2：Setup「ifileplaypack.exe」。



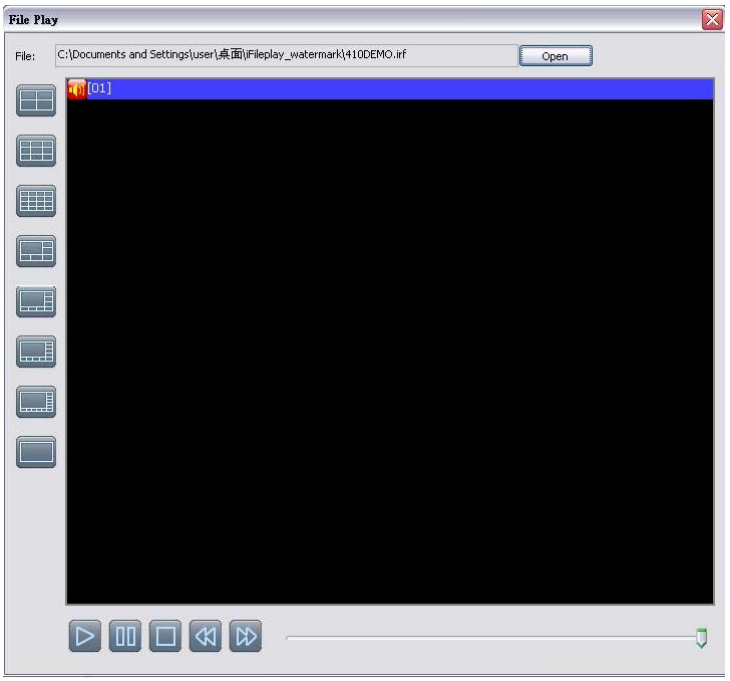
Step 3：Click「open」，choose and star a DVR backup file。



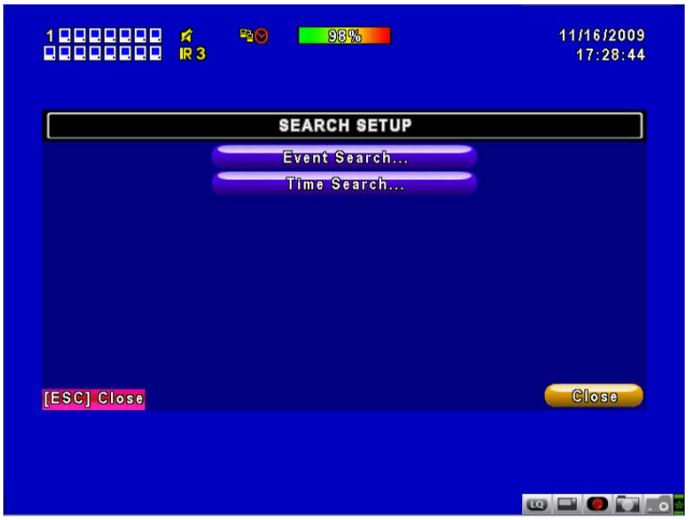
Step 4：Ifileplay software will play the backup file automatically.



Step 5：If there is no display on the screen, The backup file is not our DVR recording format. Please check it.



5-2 SEARCH SETUP



Item	Description
Event Search	Event search menu
Time Search	Enter time search menu

5-2.1 EVENT SEARCH

The DVR automatically records events with type, time and channel information included. If there is recording data for an event, a yellow signal will be shown on the left side of time information. Rest your cursor under the line and press “enter”, or left click your mouse to playback the recording data.

P.S. Event Records will still be generated even when hard disk is not installed or the record function is not activated. However, the record can’t be viewed after selecting it.

Item	Description	
Criteria	Setup conditions of event search	
Page	Switch between pages of events	
Date/Time	Date/time when event occurred.	
Event Type	Event type, defined as following	
	MOTION	Motion Detected
	Video Loss	Video Loss
	Remote Login	user log-in over the network
	Remote Logout	user log-out over the network
	Power On	DVR Power on
	HDD Full	HDD Space FULL
	HDD Error	Detect HDD error
	Reboot	DVR Reboot
Info	The channel where event occurs or login user	

5-2.1.1 CRITERIA SETUP FOR EVENT SEARCH

The amount of events can be numerous. Therefore, you can facilitate event sorting by setting up “criteria”. Setup “start time” and “end time” for event search, then the search result will be limited to this specific period of time. Only checked events and channels will be sorted in event search.

5-2.2 TIME SEARCH

TIME SEARCH can search for the specific time of recording data to playback. Press “Enter” or left click on the desired date to playback. Note that dates with recording data are marked with a red square “ □ “System will start playing back according to the date you selected. Calendar will be shown by using mouse to click on “year” and “month”.

Click “date” to display recording time of that specific date with time bar. You can change time (hour/minute/second) or click on a specific time of time bar by mouse then press “**ok**”. DVR will playback the selected recording data.

CHAPTER 6 Remote Software Installation and Setup

6-1 AP Software Installation and instruction

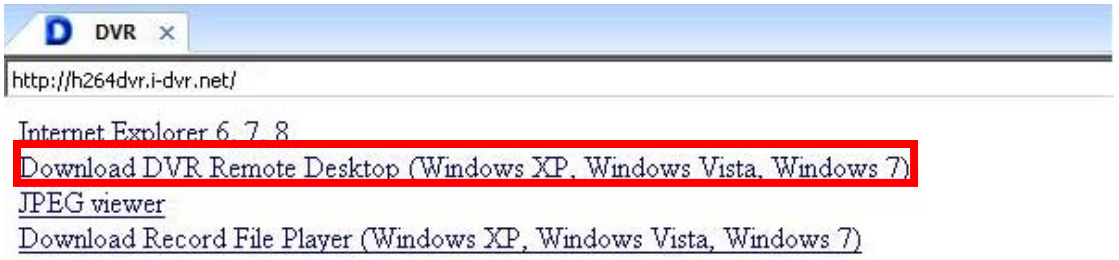
AP software:「DVR Remote Desktop」can allow you to remotely access and control the DVR from PC.

p.s. Operation system currently supports Windows XP SP2 and above and Windows Vista, Windows 7

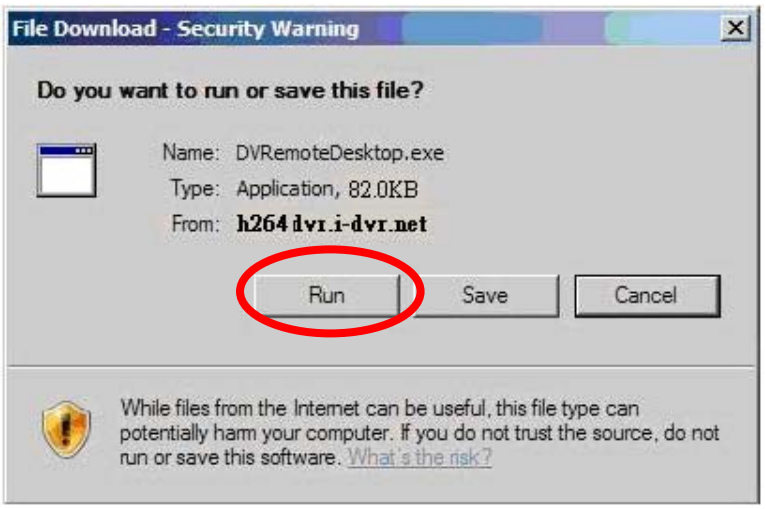
Step One：Enter the IP address of DVR in IE browser

Step Two: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check **"4-5 Account Setup**. "

Step Three: Click on the link to start downloading the AP software.

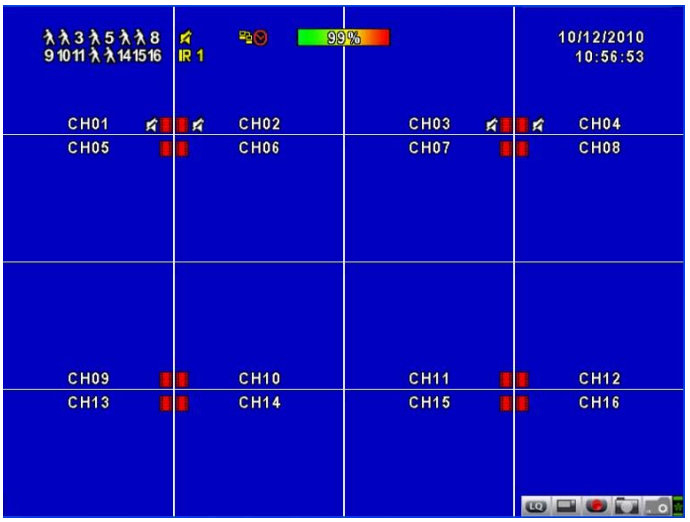

DVR
http://h264dvr.i-dvr.net/
Internet Explorer 6, 7, 8
Download DVR Remote Desktop (Windows XP, Windows Vista, Windows 7)
JPEG viewer
Download Record File Player (Windows XP, Windows Vista, Windows 7)

Step Four: Run or Save our AP software.


File Download - Security Warning
Do you want to run or save this file?
Name: DVRemoteDesktop.exe
Type: Application, 82.0KB
From: h264dvr.i-dvr.net
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

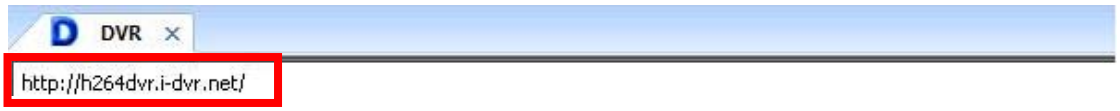
Step Five: If you choose to run the software, Start window will be shown up. Please enter information of login DVR: IP, Port, Username and Password, or choose “Play Recorded File” to open backup files in your PC.

Step Six: You’ve logged into the DVR



6-2 How to do remote monitoring through IE

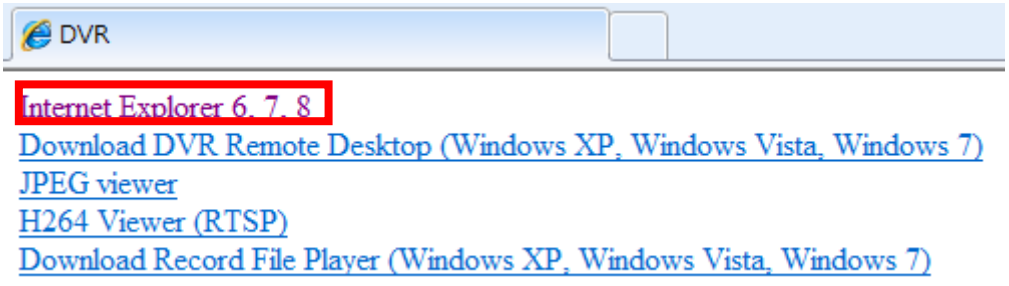
Step One：Enter the IP address of DVR in IE browser. The address appeared in this image is only for demonstration. Actual address is depending on the setup of on-site DVR.



Step Two: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check **"4-5 Account Setup**. " The user name and password appeared in this image is only for demonstration. Actual user name and password depend on the setup of on-site DVR.

Step Three: Click on "Internet Explorer 6, 7, and 8"to start downloading the AP software. (The first option is for IE view, please refer to next chapter for more information)

p.s. There will be IE connection security issue when clicking this link for the first time. Please refer to index II for Remote Monitoring IE ActiveX Control Installation Instruction.


DVR
Internet Explorer 6, 7, 8
Download DVR Remote Desktop (Windows XP, Windows Vista, Windows 7)
JPEG viewer
H264 Viewer (RTSP)
Download Record File Player (Windows XP, Windows Vista, Windows 7)

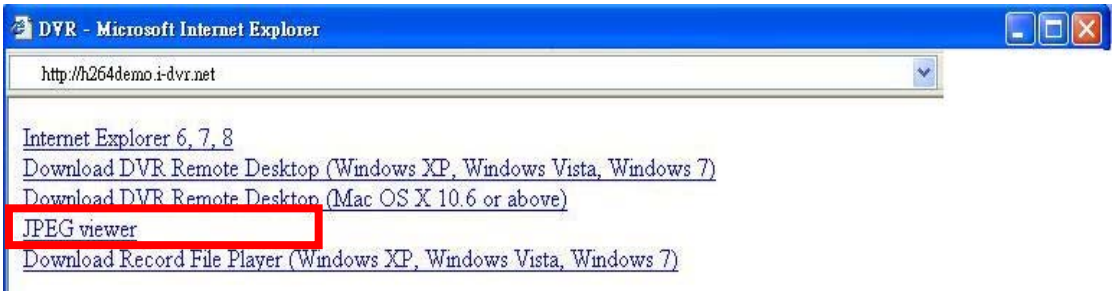
Step Four: DVR images appear.

6-3 How to do remote monitoring through JPEG VIEWER(Only Monitor Function)

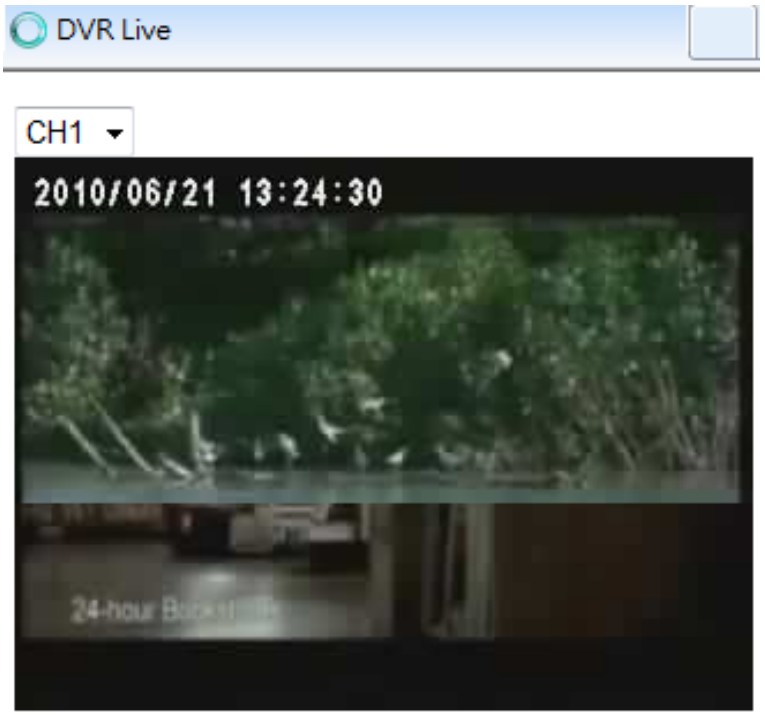
Step One：Enter the IP address of DVR in IE browser. The address appeared in this image is only for demonstration. Actual address is depending on the setup of on-site DVR.

Step Two: Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check **"4-5 Account Setup**. " The user name and password appeared in this image is only for demonstration. Actual user name and password depend on the setup of on-site DVR.

Step Three: Click on “Jpeg Viewer”


DVR - Microsoft Internet Explorer
http://h264demo.i-dvr.net
Internet Explorer 6, 7, 8
Download DVR Remote Desktop (Windows XP, Windows Vista, Windows 7)
Download DVR Remote Desktop (Mac OS X 10.6 or above)
JPEG viewer
Download Record File Player (Windows XP, Windows Vista, Windows 7)

Step Four: DVR images appear.



PS : Only for viewer, without any operation function.

6-4 AP Software Operation

Open the file “DVRemoteDesktop.exe”; enter the information of DVR “IP address”, “Port” “Username” and “Password” and click “OK”. You should be able to login DVR successfully and start to use the software. The default username and password is 「admin/ 123456」

“DVRemoteDesktop.exe” AP software provides some extra functions for remote users. Please check **Table 6-4.1** for minimum system requirements for “DVRemoteDesktop.exe” operation.

Table 6-4.1 System Requirements for AP software

CPU	Intel Pentium 4 above
OS	Microsoft Windows 7、Windows Vista、Windows XP SP2 above
RAM	512M above
VGA Card	Needed to support DirectX9.0 (Above) Note 1
Others	DirectX 9.0 above

Note 1:
Known VGA card that support DirectX9.0 currently:
NVIDIA: Geforce FXseries, Geforce 6series, Geforce 7series, Geforce 8series, Geforce 9series, Geforce 200series, etc.
Or
visit:http://en.wikipedia.org/wiki/Comparison_of_Nvidia_graphics_processing_units
ATI: Radeon R300series, Radeon R400series, Radeon R500series, Radeon R600series, Radeon R700series, Radeon HD 3xxx IGPseries, Mobility Radeonseries (9500 above), Mobility Radeon Xseries, Mobility Radeon HDseries, or FireGL Vseries etc.
Or visit: http://en.wikipedia.org/wiki/Comparison_of_ATI_graphics_processing_units
SiS: SiS 67Xseries, or SiS 77Xseries etc.
Or visit: http://www.sis.com/support/support_compare.htm
Intel: 91Xseries, 94Xseries, 96Xseries, G3Xseries, or G4Xseries, etc.
Or visit: http://en.wikipedia.org/wiki/Intel_GMA

CHAPTER 7 SPECIFICAITONS

1. VIDEO		
Input Level		1.0 Vp-p±10% Composite, 75Ω Balanced
Display Speed	NTSC	120fps
	PAL	100fps
Display Resolution	NTSC	704(H) X 480(V)
	PAL	704(H) X 576(V)
Monitor Output		2Vp-p Composite, 75Ω Balanced
2. RECORDING		
Compression Method		H.264
Recording Speed		Refer to table 7-1
Recording Resolution	NTSC	704 X 480, 704 X 240, 352 X 240
	PAL	704 X 576, 704 X 288, 352 X 288
Quality	Independent for each channel	Below Basic/ Basic/ Normal/ High/ Highest
Schedule		Setup by “minute” as unit
Mode		Manual / Event (Motion, Sensor) / Schedule
Method		By resolution, fps and quality Setup fps and quality separately for normal and event recording
3. SATA DEVICE		
Capacity	Internal Storage	Max: 2 Device (8CH),4 Device(16CH)
	External Storage	Max: 1 Device(E-SATA)
Type		SATA / SATAⅡ compatible
External Bay Interface		E-SATA
4. ALARM		
Motion Detection		Available per each camera/ Multi-detection level
5. CONNECTIONS		
Video Input		BNC 16 port (16CH), 8 port (8CH)
Video Output		BNC : 1 port (To switch the main output or SPOT output) VGA : 1 port (Max Resolution:1280X1024) HDMI : 1 port Video output (Max Resolution:1280X1024) & Audio output
Audio Input		RCA 4 port (8CH), 16 port (16CH)
Audio Output		RCA 2 port
USB 2.0		USB memory stick, USB Touch Monitor
USB 1.1		USB Mouse
Remote		Remote control
External I/O		1 RS-485, 8 Sensor, 1 Relay Output(8CH), 1 RS-485, 16 Sensor, 1 Relay Output(16CH)
Ethernet		1 RJ45 connector, 10/100 Mbps
6. ELECTRICAL		

Power Source		DC 12V / 5A (8CH), DV 12V / 6A (16CH)
7. ENVIRONMENTAL		
Operation Temperature		5℃ ~ + 40℃
Humidity		Less than 90%
8. PHYSICAL		
Dimension		430(W) x 293(D) x 55(H) mm
Weight		1.85kg (without HDD)
9. BACKUP		
BACKUP	USB Stick	Video Data, Audio
	Network	Video Data, Audio
10. SEARCHING & PLAYBACK		
Searching Type		Event/ Time
Playback speed		120 FPS
11. MULTI-REMOTE SURVEILLANCE		
Monitoring Environment		Web / Client Software(CMS)
Max. client		Supporting multi-client (5 clients accessible)
12. OTHERS		
OS		Embedded Linux
Multi Task	Pentaplex	Live、Record、Playback、Network、Backup
Control Device		Front Keys / Remote Control / Virtual Keyboard / Mouse / AP Software
PC Viewer		Direct monitoring of DVR's HDD on PC
Numbers of event list		10000

Table 7-1

Recording Speed (Independent setting for each channel)	NTSC	352 x 240	240FPS(8CH) , 480FPS(16CH)
		704 x 240	240FPS(8CH) , 240FPS(16CH)
		704 x 480	120FPS(8CH) , 120FPS(16CH)
	PAL	352 x 288	200FPS(8CH) , 400FPS(16CH)
		704 x 288	200FPS(8CH) , 200FPS(16CH)
		704 x 576	100FPS(8CH) , 100FPS(16CH)
Compression Method			H.264

CHAPTER 8 MOBILE APPLICATION INSTALLATION AND USAGE

You can remotely monitor all channels of DVR through your mobile device. The required mobile application is from DVR manufacturer and it supports mobile OS for both Windows mobile 5.0 above and Symbian.

Please confirm network function of DVR has been activated before mobile connection:
Main menu → Network Setup → HTTP Setup → Check the "Enable HTTP Server"

8-1 Mobile Application Installation and Operation for Symbian

Mobile Device: Nokia, SonyEricsson…etc.

System requirement:
GPRS/ 3G must be provided from your telecom service.
Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment

＊Please download both" DVRH264.jar" and "DVRH264.jad" to operate the function. Note that users with Sony Ericsson will only need to download "DVRH264.jar."

8-1.1 Mobile Application Installation

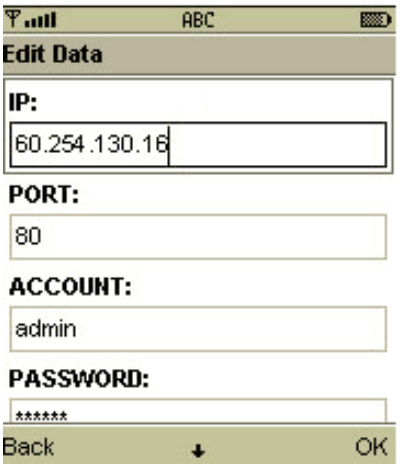
Please follow the steps cited below to perform the mobile device surveillance function.

Step 1: The mobile application called "**DVRH264.jar**" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.

Step 2: Install the application software "**DVRH264.jar**" in your mobile device. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

8-1.2 Mobile Application Operation

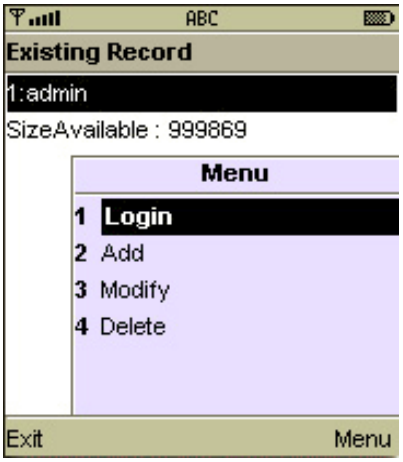
After the installation, enter the Program Files menu in your mobile device to run a file called "**DVRH264**".



Select "Menu" at the right lower corner of your mobile screen, 4 commands, **Login Add Modify** and **Delete**, will show up.

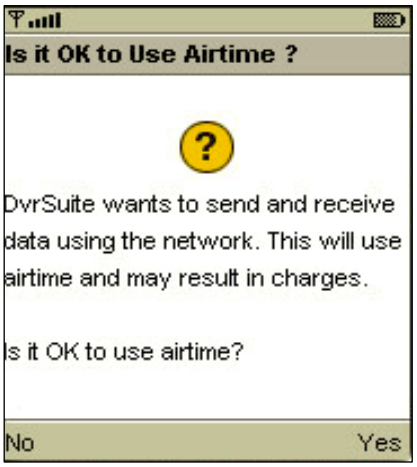
8-1.2.1 Add New Login DVR

To log into the DVR, you need to enter the logging-in DVR information. Find "**Add**" under the "Menu" then enter logging-in DVR's IP address, Port number, account name and password. Press "**Add**" to save this information after entering.



8-1.2.2 Logging Onto the DVR

Use the Login command to log onto a DVR and monitor live images. If multiple DVRs have been added to the mobile application, they will be listed by name, you can select one to log onto.


Is it OK to Use Airtime ?
DvrSuite wants to send and receive data using the network. This will use airtime and may result in charges.
Is it OK to use airtime?
No
Yes

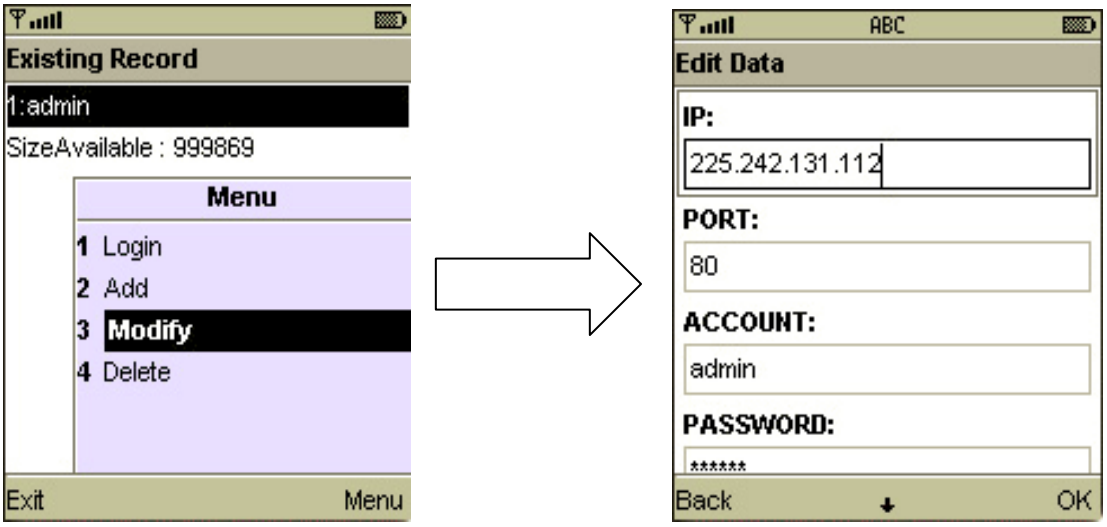
A confirmation message might show up for network charge before connection. The fee rate will depend on the telecom company and package fee you go with.

Network connectivity will take some time. It'll be affected by networking environment and bandwidth flow.
Live image will show up after a successful connection.

PS. The *Live* can not be displayed in your mobile when the recording is off in local DVR.

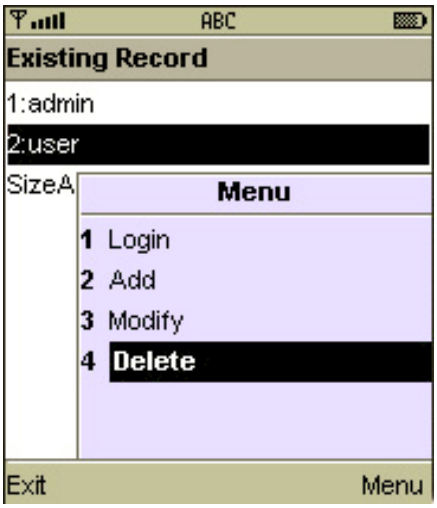
8-1.2.3 Modify the Login Information of DVR

You can use the "**Modify**" command to change the login information of DVR. The dialogue is identical to that of the "Add" command.



8-1.2.4 Delete the Login Information of DVR

"**Delete**" command can be used to remove the DVR information if it is no longer useful. Select the DVR on the name list then choose "**Delete**"



8-1.3 Live Monitoring Operation

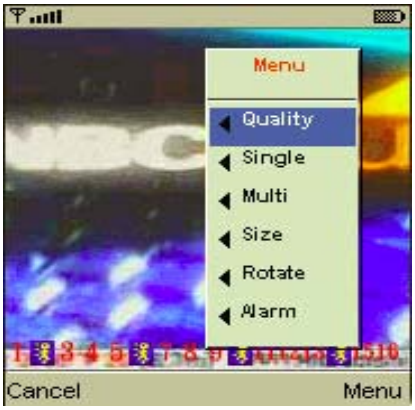
This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

8-1.3.1 Scroll the Image

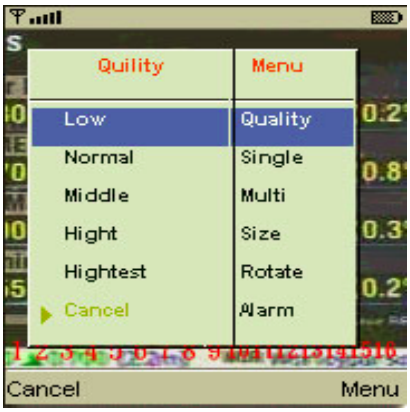
You can use the keypad on your mobile device to scroll the image if it's oversized.

Key	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

8-1.3.2 Image Quality Setup

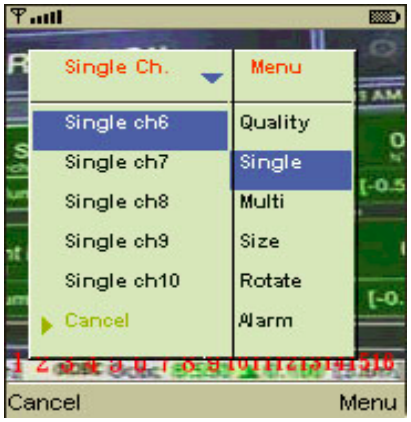


Select "**Quality**" under the "Menu"



There will be 5 levels for your to choose: **Low**、**Normal**、**Middle**、**High** and **Highest**.

8-1.3.3 Channel Display



Select "**Single**" under the "Menu", there will be all channels of your DVR in list for you to choose.

PS. The *Live* can not be displayed in your mobile when the recording is off in local DVR.

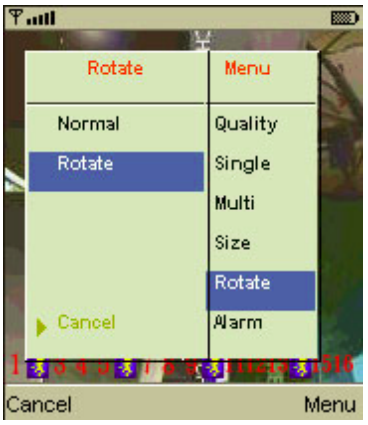
8-1.3.4 Size of Image

The screen size of different mobile device can be different. You can select "**Size**" under the "Menu" to choose from "**Original**" or "**Fit Screen"** to resize the display image.

Item	Description
Original	The image will be shown in original size.
Fit Screen	The image will be shown to fit the screen.

8-1.3.5 Rotate the image

The Live image can be displayed in normal or rotate to 90 degrees. Select "**Rotate**" under the "Menu" for this operation.



8-1.3.6 Alarm

This application not only allows you to remotely monitor through mobile device but receive the alarm that has been triggered by events such as Motion Detected, Sensor Triggered and Vloss.

Graphical icons below will be shown on the status:

: Motion detected

: Sensor triggered

: Video loss

Select the "**Alarm**" under the "Menu" to switch this function on or off.

8-2 Mobile Application Installation and Operation for Windows Mobile

There is one application for Window Mobile OS. The one for H.264 compression can transfer both audio and video signal to your mobile device.

System Requirement:
Mobile device OS：Windows mobile system 5.0 above.
Mobile device need to support internet: GPRS / 3G / Wifi… etc.

8-2.1 Mobile Application Installation

Please follow the steps cited below to perform the mobile device surveillance function on your mobile device (mobile phone, PDA ...etc).

Step 1: The mobile application called "**H264Pocket.CAB**" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.

Step 2: Install the application software "**H264Pocket.CAB**" in your mobile device, the folder named "**H264Pocket**" will be created. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

Start
ok
h264pocket.CAB was successfully installed on your device.
If you need more storage space, you can remove installed programs.

8-2.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to file named "**DVRU264Pocket**" and run "**H264Pocket**"program.

This application allows you to remotely logon and monitor DVR. Press "**OK**" to bring up the operation menu, see below chart to further information.

Item	Function	Description
Add	Add login DVR	Enter DVR's name, IP address, Port, Account user, Password then press "**OK**"
Login	Logon DVR	• Choose the DVR that you'd like to log on , then press "**OK**" • **PS. The *Live* can not be displayed in your mobile when the recoding is off**. • **PS. Network connectivity will be affected by networking environment and bandwidth flow. The fee rate will depend on the telecom company and package fee you go with.**
Modify	Modify Login DVR	Choose DVR, press "**Modify**", and press"**OK**" to save change.
Delete	Delete Login DVR	Choose DVR and press "**Delete**" to delete the DVR info.

8-2.3 Operation under the LIVE monitoring.

After successful log on the DVR, press “View” to bring up operation menu. You can choose the channel, resize the image, choose the quality, and turn on/off the status bar, alarm, full screen display….etc

Item	Function	Description
Channel 1~4	Display for CH 1~4	Choose from CH1~4 to display. (Show only supports a single partition)
Status Bar	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the “**Status Bar**” to inactivate this function.
Alarm	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the “**Alarm**” under the “View” to inactivate this function.
Sound	Sound	If the channel video with sound input, turn this option to hear the real sound **.**
Full Screen	Full screen display	You can choose one channel to display in full screen by check this function.

Icon	Description
	Motion Detect
	Sensor Trigger
	V-Loss

8-3 Google Android Phone OS application and operation

System requirements：

Mobile Device operation platform：Google Android System。

Internet needed for Mobile device operation platform (GPRS/ 3G/ Wifi…etc.)

In order to remote log in to DVR to live monitoring through mobile device, first of all, please follow the instructions for software installation:

Step 1: Google Phone applications will copy and extract to the PC (or NB).
File in the shipment CD-ROM of directory Mobile → Gphone →Android.zip

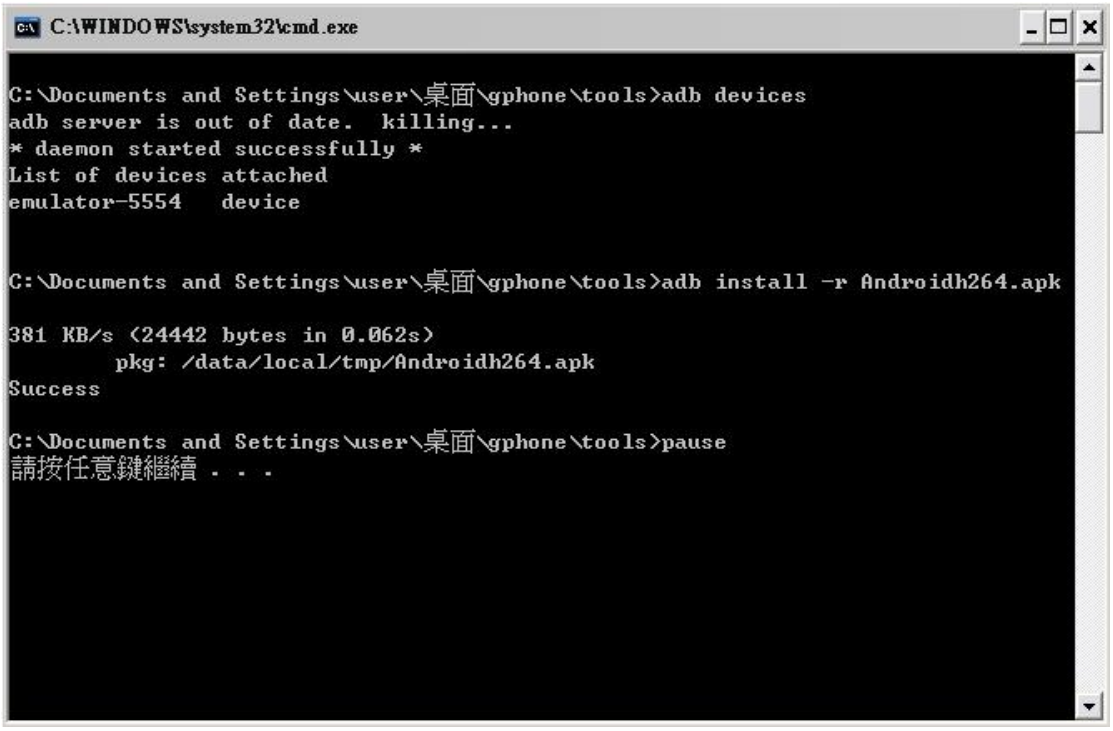
Please Copy and unzip this file "Android.zip" to the desktop,
It will produce a file named "gphone" directory.

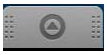
Step 2: Place the Google phone USB cable into the PC (or NB), the computer will automatically detect the new hardware and requires the installation of the driver, please extract the path point to the directory in step 1 (In this example to the desktop of the "gphone" → "usb_driver"), System will begin to install phone driver.

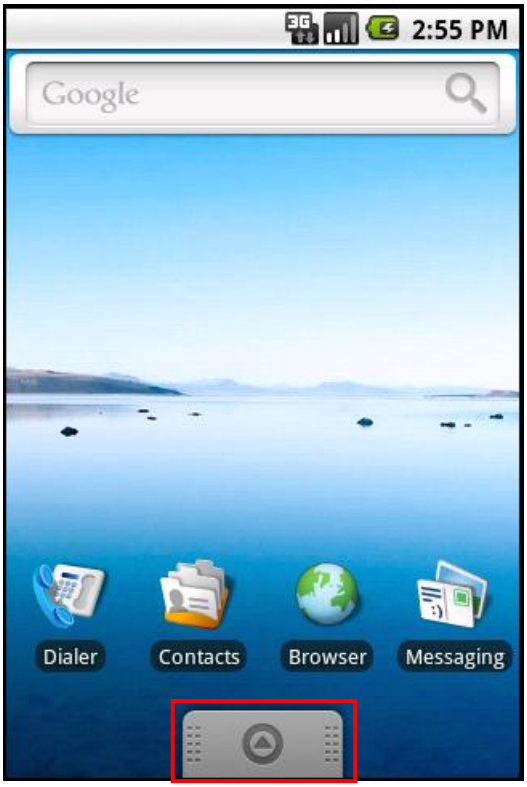
Step 3: Click the implementation of the "gphone" directory → tools → installapk.bat

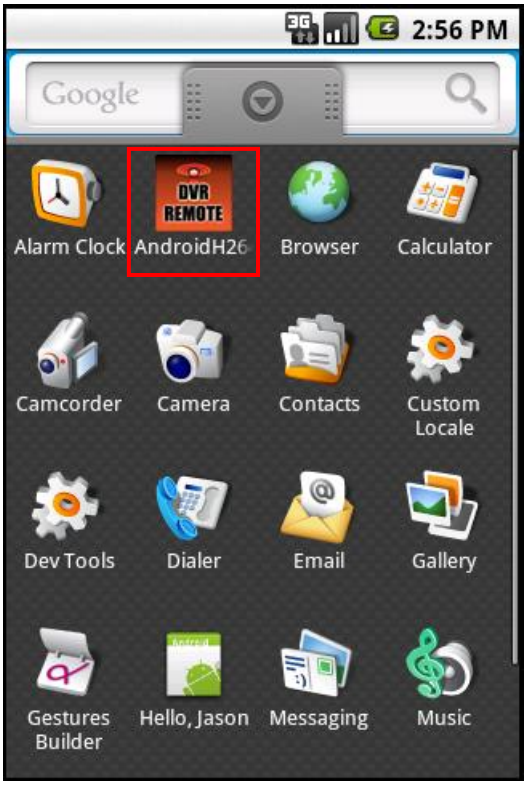
This step will install Google phone software directly connected to the Gphone.

After installation, please press any key to exit.



Step 4: In Gphone mobile , click  , look and perform "Androidh264".



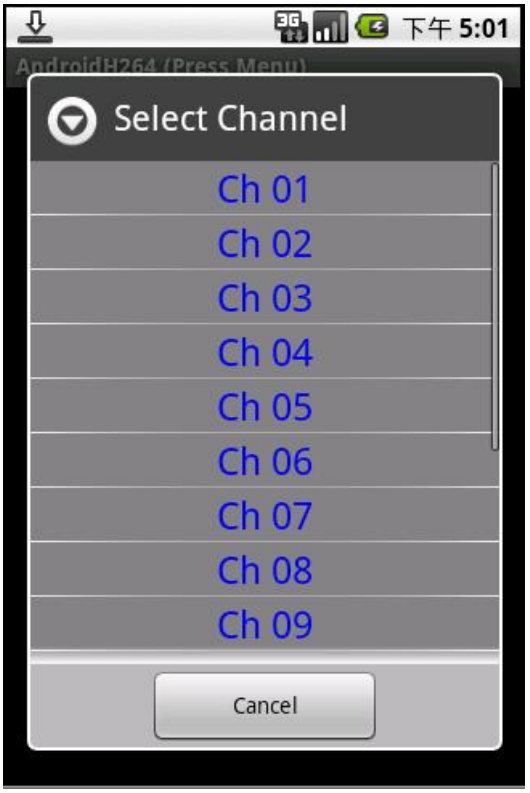


Step 5: Click "Menu" → Add new DVR Name, IP location, Port, User name and Password, enter the complete click Login.

Step 6: Wait for a moment that will occur real-time video

(according to the actual network speed, connection time needed may vary).

Click the top "AndroidH264 (Press Menu)" Department to switch channels.



8-4 Blackberry Operation System Software Installation and Operation

System requirements：

Mobile Device operation platform：Blackberry 9000

Internet needed for Mobile device operation platform (GPRS/ 3G/ Wifi…etc.)

Software：Blackberry Desktop Manager v4.6 or above

8-4-1 Software installation

In order to remote log in to DVR to live monitoring through mobile device, first of all, please follow the instructions for software installation:

Step One: Visit Blackberry official website

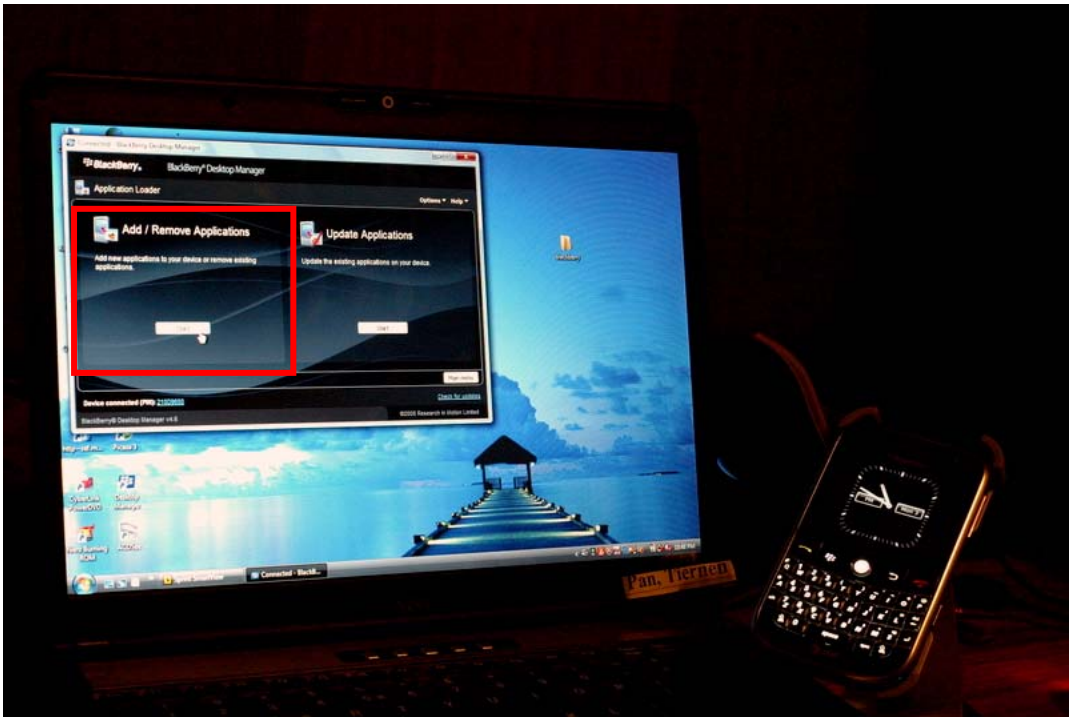
http://na.blackberry.com/eng/services/desktop/

Download Blackberry Desktop Manager and install it in PC

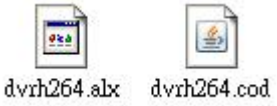
Step Two: Connect Blackberry USB transmission cable to Blackberry and PC. Activate Blackberry Desktop Manager on PC and it will automatically connect to Blackberry momentarily.

Step Three：Run ”Application Loader”

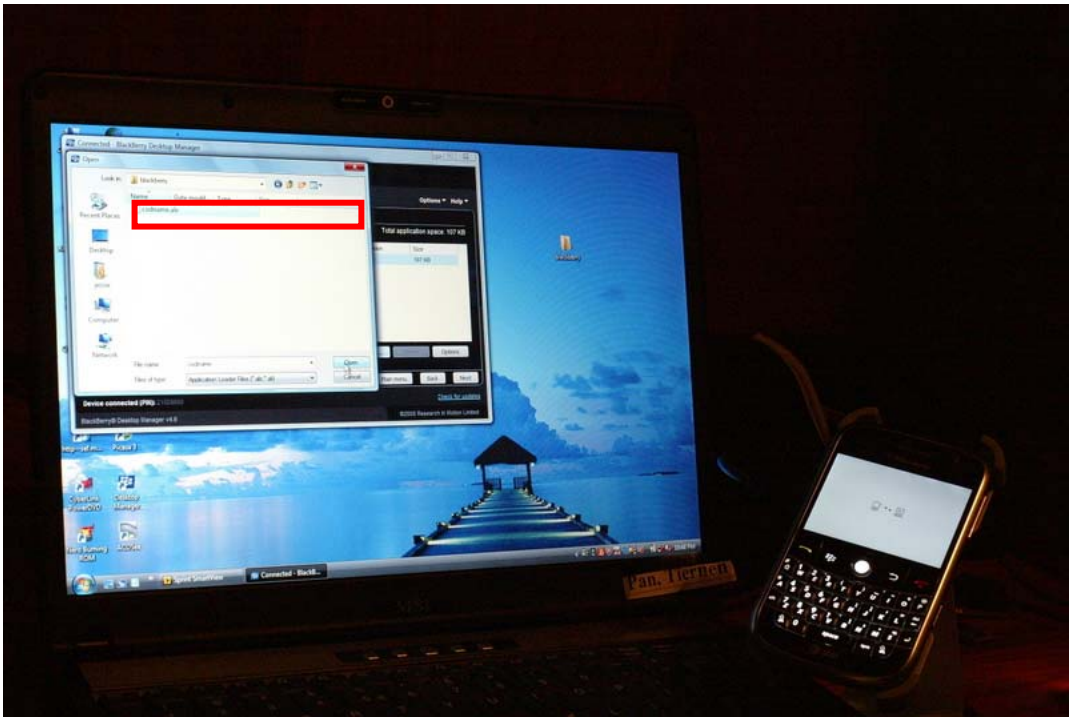
Step Four: Run “Add/Remove Applications”



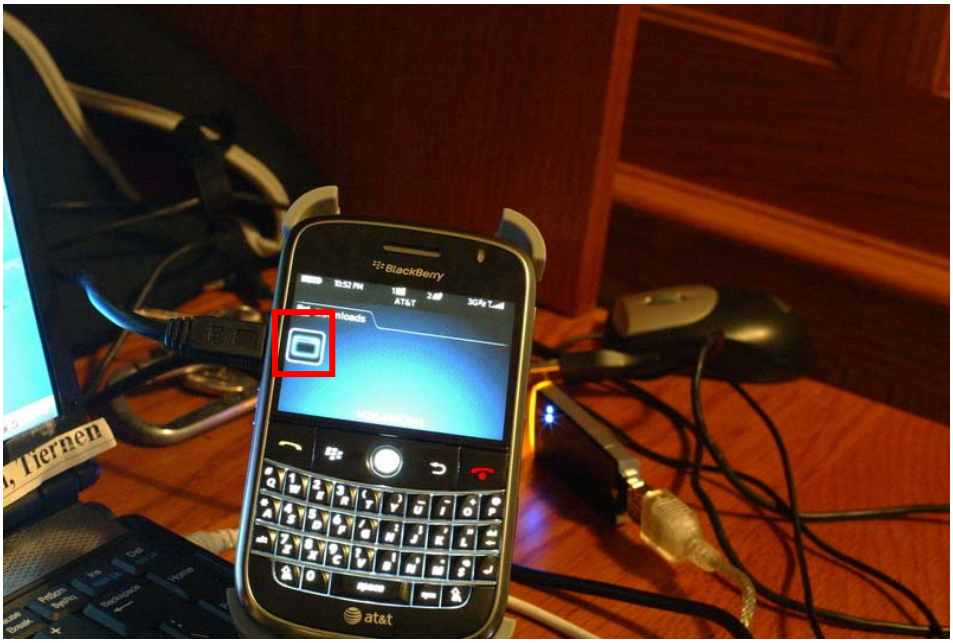
Step Five: Please copy”dvrh264.alx” and “dvrh264.cod” to PC.
The software is available in the User CD that comes with each of DVR.



Step Six: Find “dvrh264.alx” in Blackberry Desktop Manager . After activating the software, press “Next.” The software will be installed in Blackberry automatically. Remove USB cable after installation.



Step Seven:
After the software is installed completely, enter “Download” menu in the mobile device and execute program, “H264MIDlet”

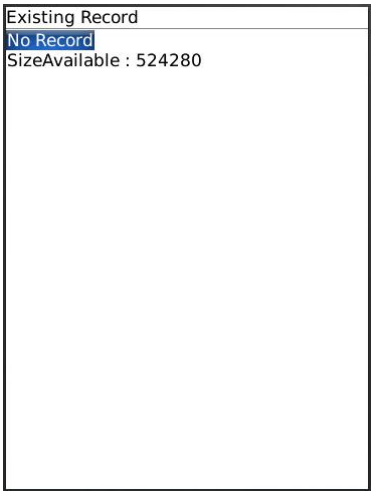


8-4.2 Application Software Operation

8-4.2.1 Add new log-in DVR

In order to connect to DVR, please input DVR information to the mobile device.

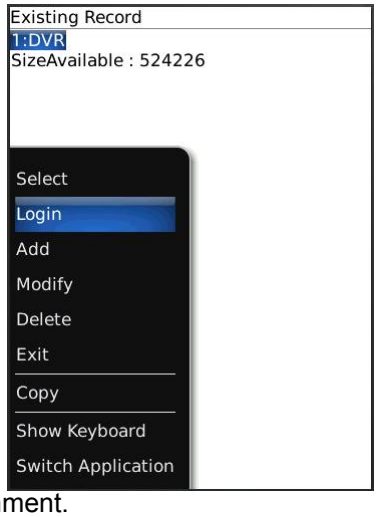
Press “option” → “Add”, and then enter “DVR IP,” “port,” “log-in account,” and, ”log-in password.” Press “ok” to save.



8-4.2.2 Log in onto the DVR

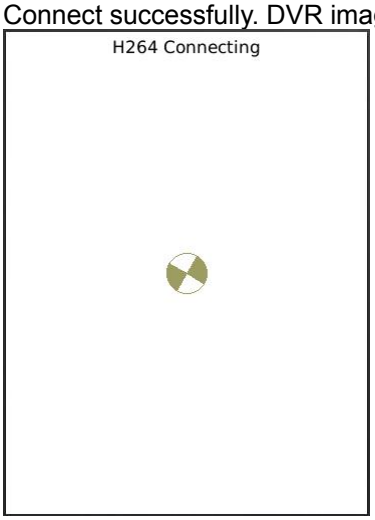
Multiple DVR information can be saved with this software, therefore, please choose the DVR that’s wished to be connected.

Press “Option” → “Login” to log in to DVR for live monitoring.



Connecting time depends on the Internet transmission environment.

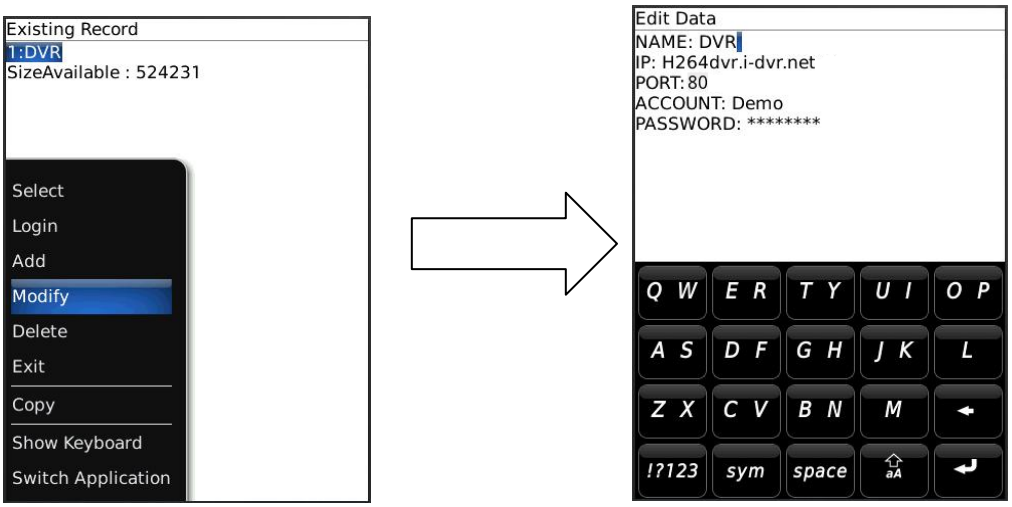
Connect successfully. DVR image appears.



Note：If recording function isn’t on for any channel in DVR end, that channel will not be available for live monitoring.

8-4.2.3 Modify the Login Information of DVR

If DVR log-in information is wished to be modified, please select the DVR. Enter “Option” → “Modify” for editing the existing data. Press “OK” when it’s finished.



8-4.2.4 Delete DVR Existing Record (Connection Information)

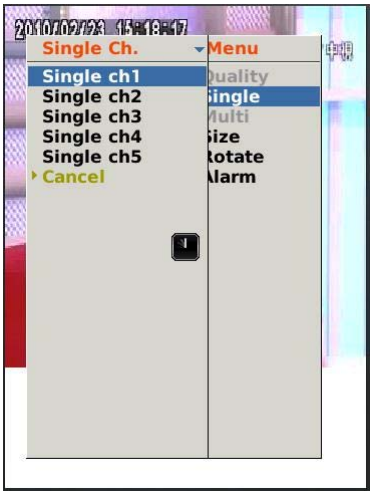
If DVR connection information is no longer needed,
please select the DVR.
Press “Option” → “Delete” to delete the DVR connection information.

8-4.3 Live Image Operation

After successfully connecting to DVR, single channel view, image display changes, image quality adjustments, alarm on/off features … etc. are available through the software.

8-4.3.1 Live Image Display

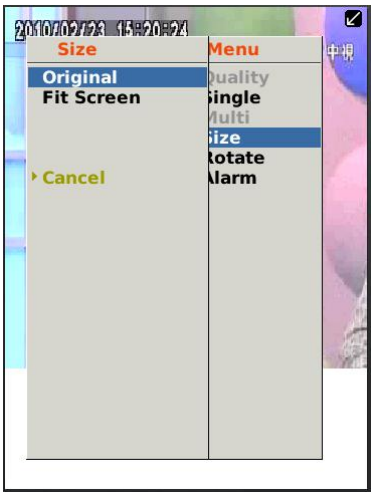
When viewing live images, please select “Single.”
There is channel 1 to 16 available.



Note：If recording function isn’t on for any channel in DVR end, that channel will not be available for live monitoring.

8-4.3.2 Image size

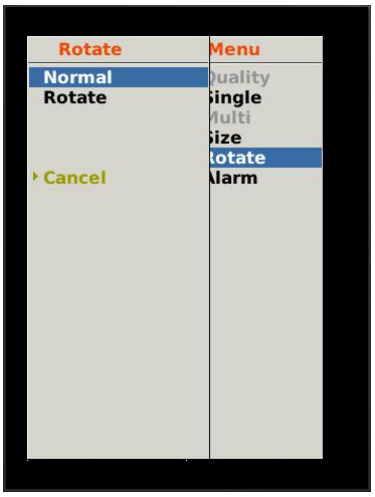
Due to the variety sizes of mobile device screens, this software offers two different methods for image display. Press “Size” in menu, and then there will be options, “Original” and “Fit Screen” available to choose from.



Option	Description
Original	Image appears as its original size.
Fit Screen	Image appears to be the most optimized size according to the screen.

8-4.3.3 Image Rotation

There are two options for live image display. One is to appear as its original image, or to rotate the image by 90 degrees.
Press “Rotate” in menu and there will be options, “Normal” and “Rotate” available to choose from.

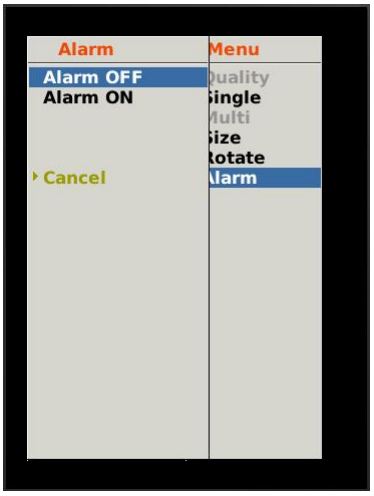


8-4.3.4 Alarm

Besides DVR live monitoring, alarm feature is also available through this software. If events like, Motion Detection, Sensor Detection, VLOSS …etc. occur, there will be alarm sound and alarm images appear on the status.

Icon	Description
	Motion Detection
	Sensor Detection
	VLOSS

Press “Alarm” in menu, there will be options,
“Alarm OFF” and “Alarm ON” available to choose from.

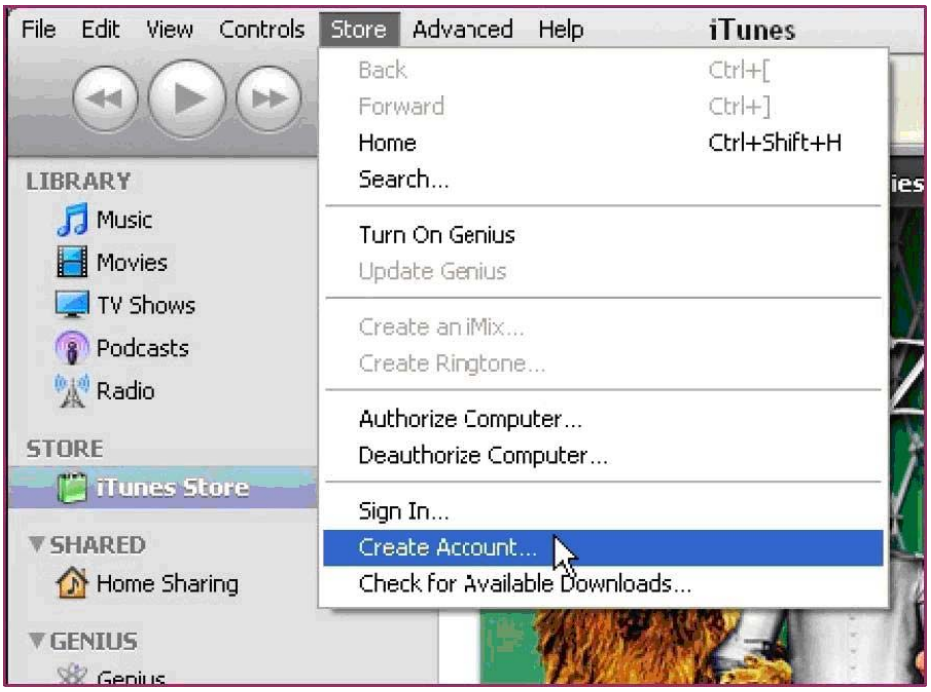


8-5 iPhone Software installation and operation

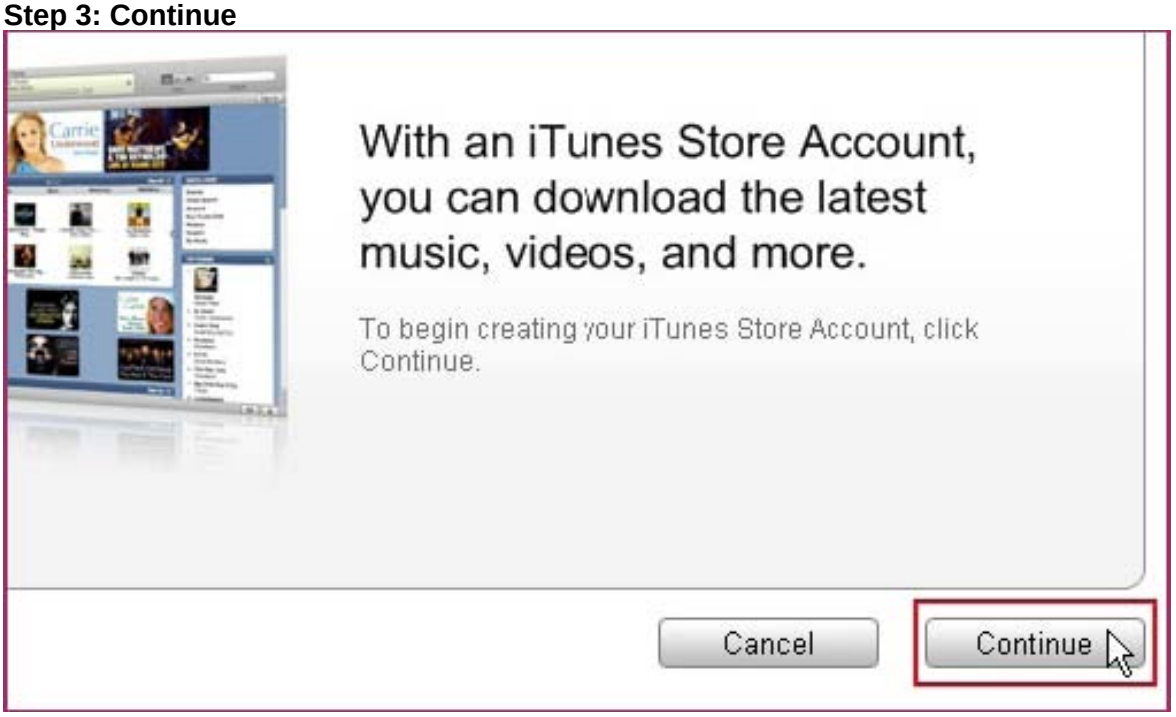
8-5.1 iTune software installation and registration

STEP1: Download iTunes
Visit Apple website http://www.apple.com/itunes/ to download & install the **iTunes**.

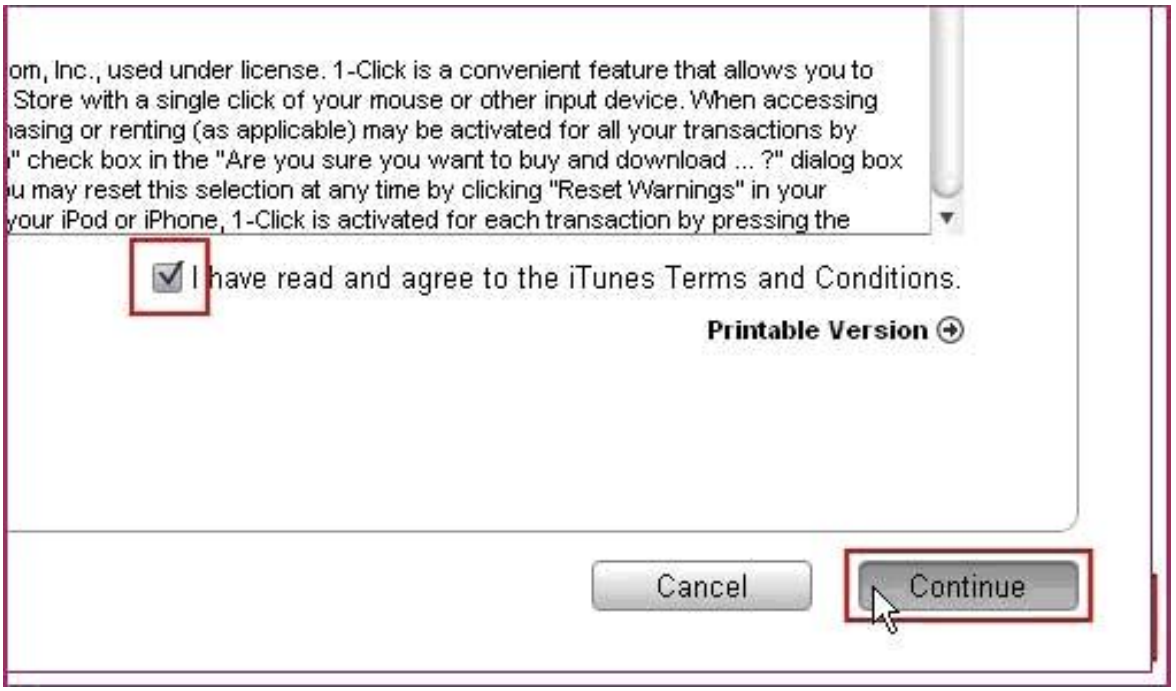
Step 2 Register iTunes Store
2.1.1 Run the installed iTunes, you might need to create an account to visit iTunes store firstly. Move to the menu “Store”, and click the option “Create Account”.



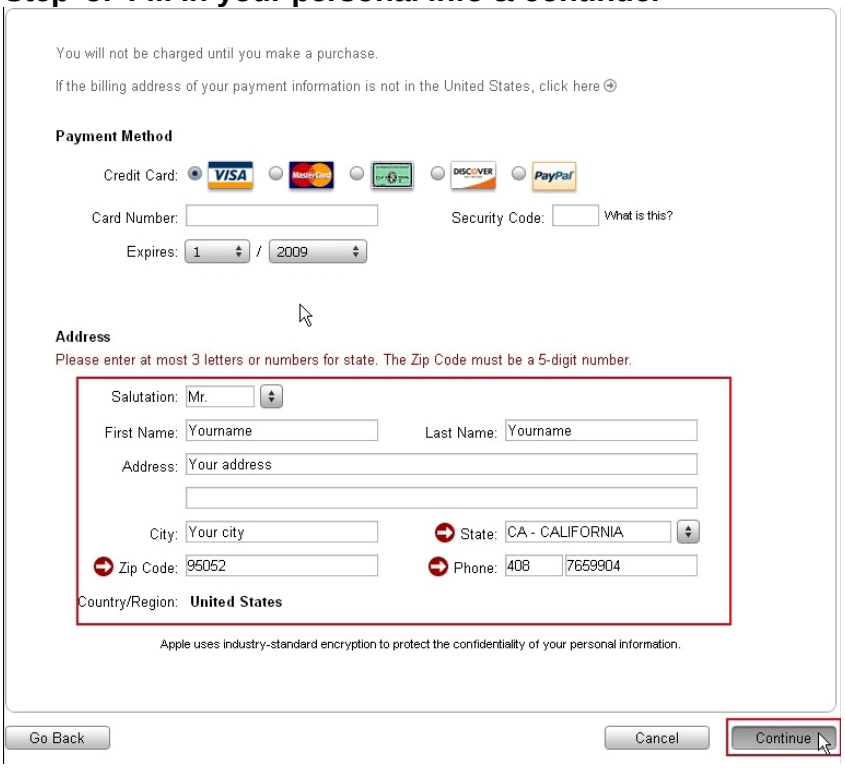
Step 3: Continue


With an iTunes Store Account, you can download the latest music, videos, and more.
To begin creating your iTunes Store Account, click Continue.
Cancel
Continue

Step 4: Select & Continue

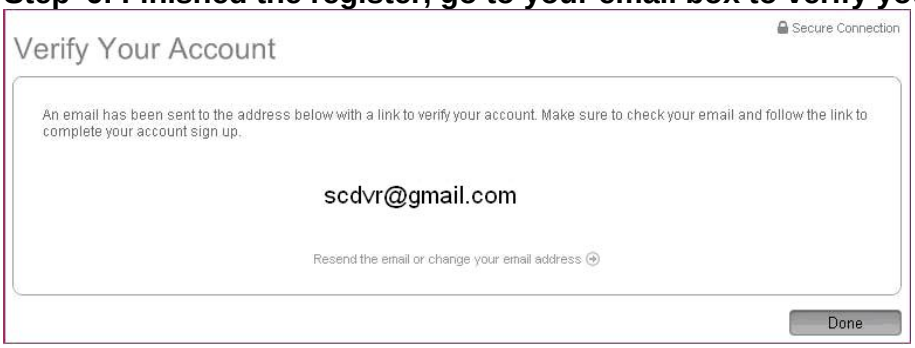

om, Inc., used under license. 1-Click is a convenient feature that allows you to
Store with a single click of your mouse or other input device. When accessing
asing or renting (as applicable) may be activated for all your transactions by
" check box in the "Are you sure you want to buy and download ... ?" dialog box
u may reset this selection at any time by clicking "Reset Warnings" in your
your iPod or iPhone, 1-Click is activated for each transaction by pressing the
I have read and agree to the iTunes Terms and Conditions.
Printable Version
Cancel
Continue

Step 5: Fill in your personal info & continue.

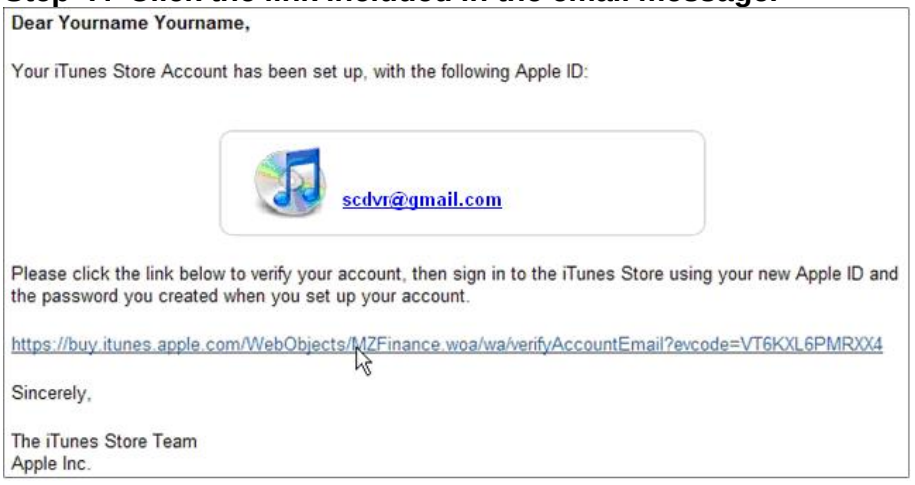


Please note that the options of Payment Method are different from different regions, please select another payment method.
Don't worry, "SCDVR" is a free software & you don't need to pay for it.

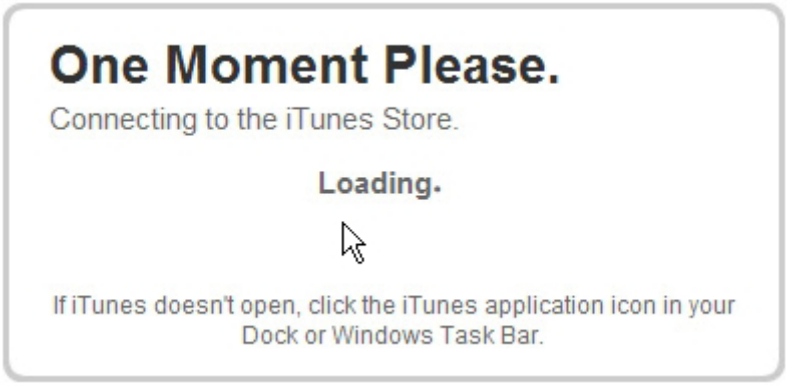
Step 6: Finished the register, go to your email box to verify your account.


Secure Connection
Verify Your Account
An email has been sent to the address below with a link to verify your account. Make sure to check your email and follow the link to complete your account sign up.
scdvr@gmail.com
Resend the email or change your email address
Done

Step 7: Click the link included in the email message.


Dear Yourname Yourname,
Your iTunes Store Account has been set up, with the following Apple ID:
scdvr@gmail.com
Please click the link below to verify your account, then sign in to the iTunes Store using your new Apple ID and the password you created when you set up your account.
https://buy.itunes.apple.com/WebObjects/MZFinance.woa/wa/verifyAccountEmail?evcode=VT6KXL6PMRXX4
Sincerely,
The iTunes Store Team
Apple Inc.

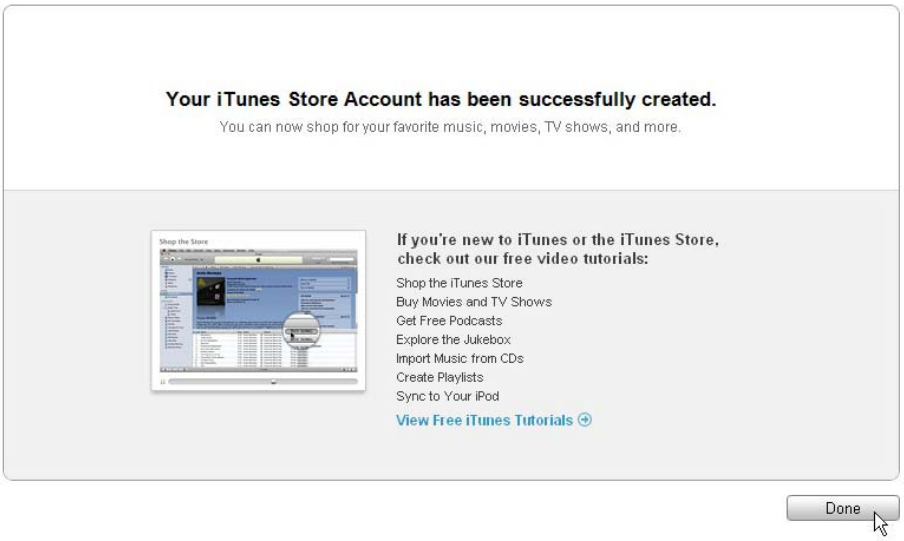
Step 8: It will connect to the iTunes store and turn to iTunes interface.


One Moment Please.
Connecting to the iTunes Store.
Loading.
If iTunes doesn't open, click the iTunes application icon in your Dock or Windows Task Bar.

Step 9: Sign in your account.

Step 10: The register of your iTunes store account has been done.

Congratulations


Your iTunes Store Account has been successfully created.
You can now shop for your favorite music, movies, TV shows, and more.
If you're new to iTunes or the iTunes Store, check out our free video tutorials:
Shop the iTunes Store
Buy Movies and TV Shows
Get Free Podcasts
Explore the Jukebox
Import Music from CDs
Create Playlists
Sync to Your iPod
View Free iTunes Tutorials
Done

8-5.2 "scdvr" software installation (From iTunes)

Step 1: Click iTunes Store(1), then input "scdvr" into the search bar(2) on the right upper corner and press Enter.

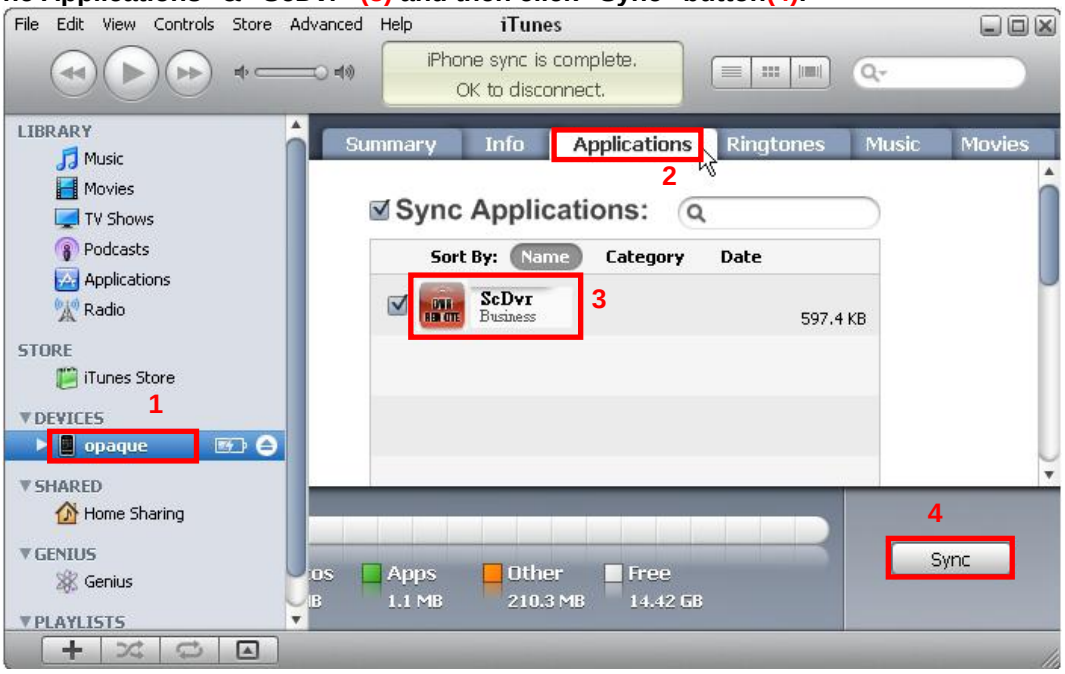
Step 2: You will find the ScDvr icon displayed as below.

Click the icon and it will turn to the download page. Click the **"FREE APP**" button to download the file.

Step 3: You will find the downloaded file on the directory of Application

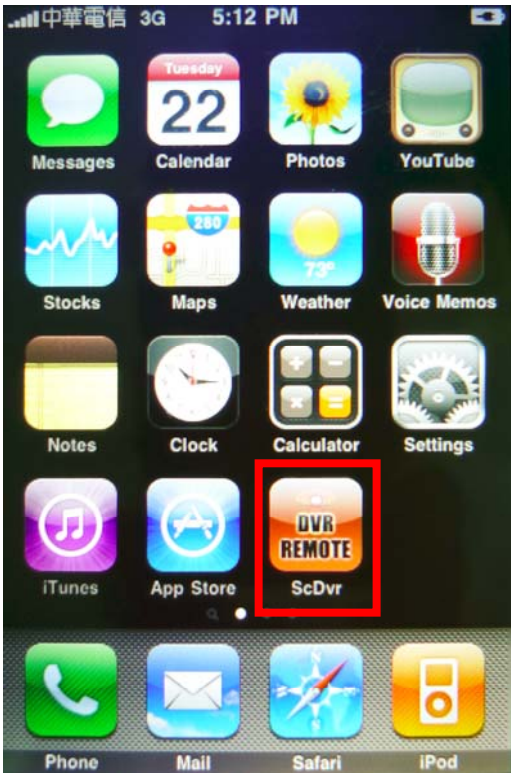
Step 4:

Connect your iPhone to the computer, you will find your Device displayed on the left si debar. Select the DEVICES ID(1), and then click "Applications" option(2). Select the "Sync Applications" & "ScDvr" (3) and then click "Sync" button(4).



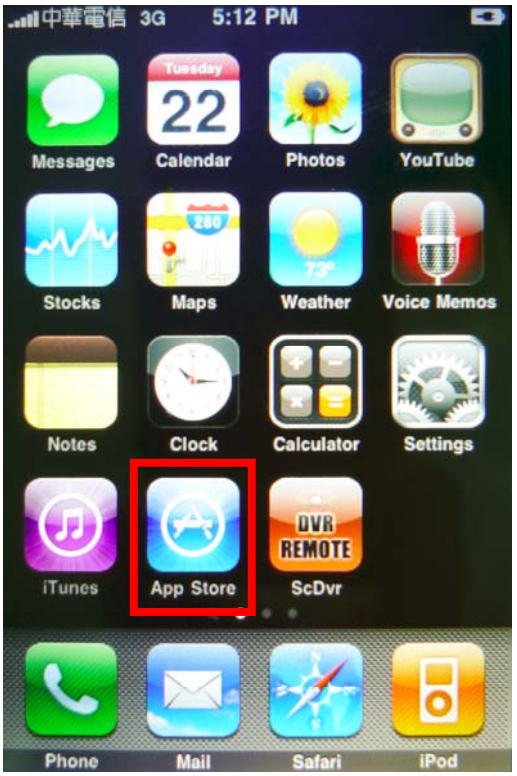
＊ **The devices ID is different from different iPhones**

Step 5: After finishing the sync, you will find the ScDvr Icon on your iPhone.

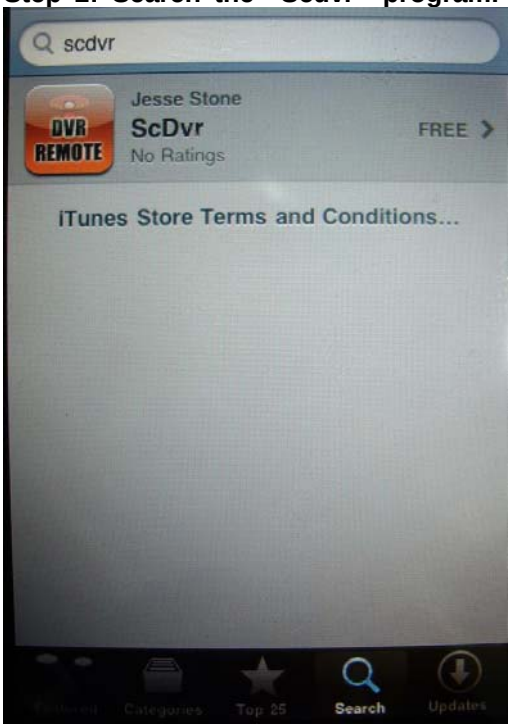


8-5.3 "scdvr" software installation (From App Store)

Step 1: iPhone connect to internet (GPRS/3G/Wifi…), and run App Store program.



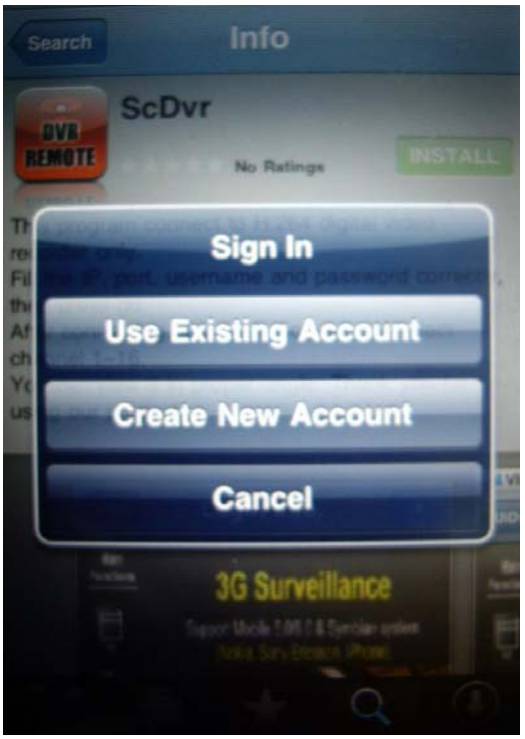
Step 2: Search the "Scdvr'' program.



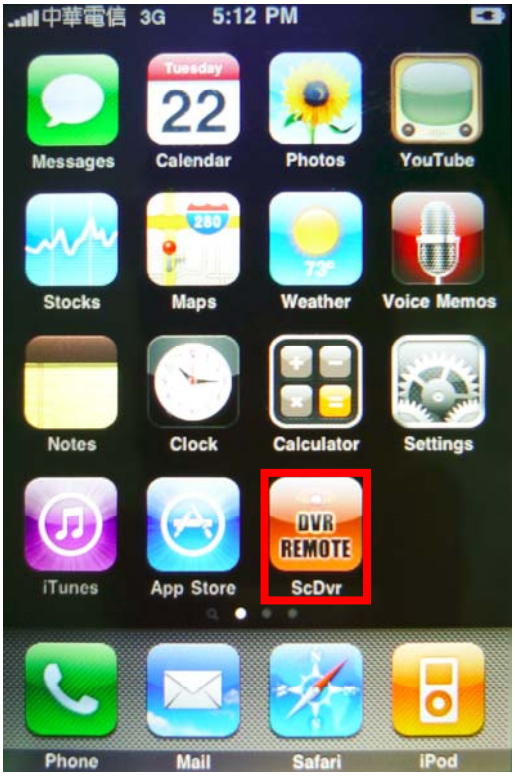
Step 3: Show Scdvr information & “Free” icon.

Step 4: Press “Free” icon till it become “Install” then click and run install progra m.

Step 5: Sign in Username & Password.

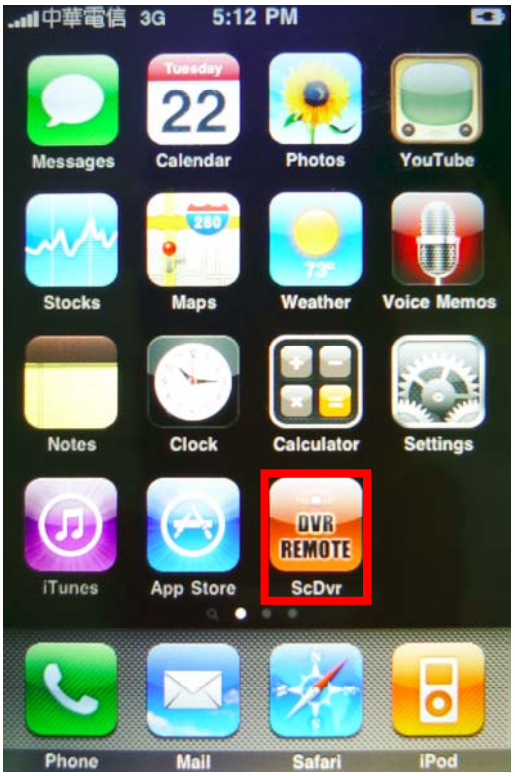


Step 6: Wait process complete. iPhone will generate a new ScDvr program.



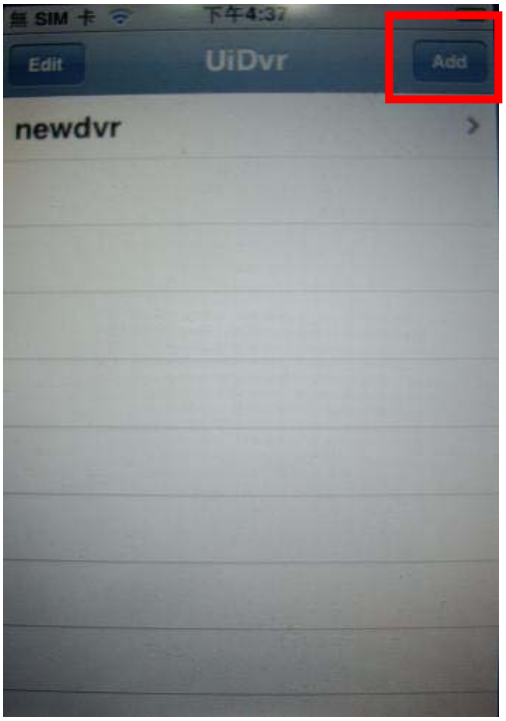
8-5.4 How to operate "ScDvr" program.

Run ScDvr program in the beginning.



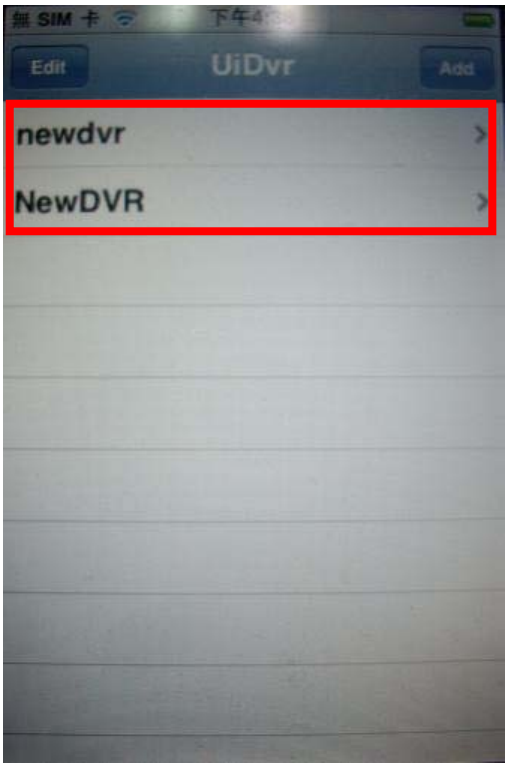
8-5.4.1 Add new DVR information.

When you use ScDvr program first time, you must enter and save DVR's information. Pl ease press the "Add" then enter the DVR's Name/ IP/ Port/ Username/ Password, after t hese information fill. Click "GO" this button will connect to the DVR and save these DV R's information automatically.



8-5.4.2 How to log in DVR.

"ScDvr" can store many DVR's information, You can choose the DVR you need and press "GO" to log in.

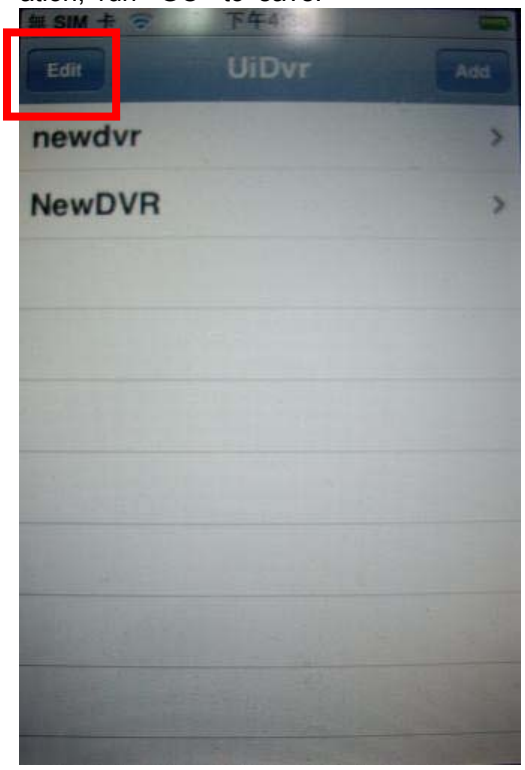


The login take time depend on network bandwidth. Live view will appear when login successfully.

PS: The channel without recording cannot be live view.

8-5.4.3 How to change DVR's information.

If you need to change DVR's information, please press the "Edit" and change the information, run "GO" to save.



8-5.5 How to use ScDvr to Live monitor.

8.5.5.1 Live display

When Live view, click the lower window. A control table will appear. You can switch the Live View from CH1~CH4 and on/off the voice. Press the “Uidvr”. You can back to the previous page.

8.5.5.2 Rotate the display

You can choose the live view display with original angle or 90/ 180/ 270 rotation angle f rom anti-clock direction when you press the “R” button right of the corner,

CHAPTER 9 CMS INSTALLATION AND USAGE GUIDE

9-1 CMS Installation

System Requirement:

＊Intel Pentium 4 processor or equivalent.

＊Microsoft Windows Vista、Windows XP、Windows 2003 Server.

＊Besides OS and other required APs, there will be 512MB remaining memory needed or above.

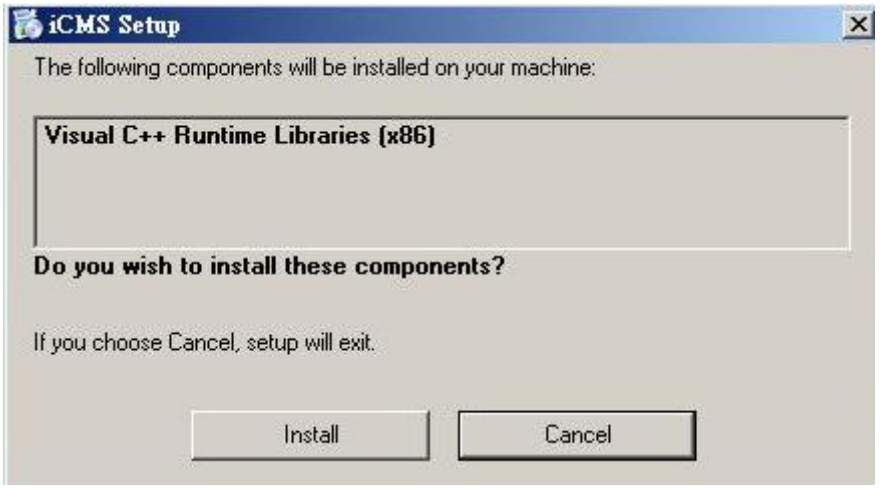
＊512MB memory above.(500M requested for group DVR connection and 180M for single DVR)

＊20MB HD space. Recording and image capturing require extra space for storage.

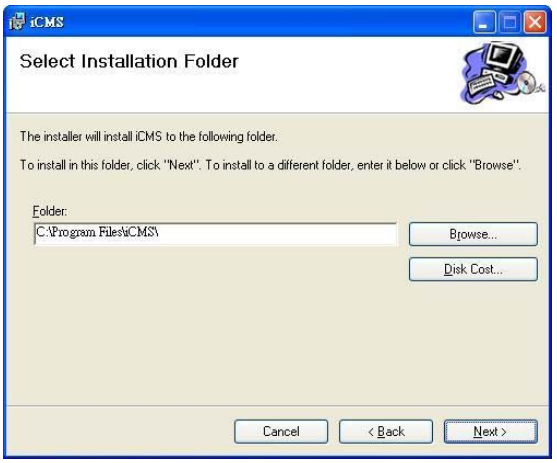
＊VGA Card needs to support DirectX9 and function well while running it. Please refer to p52 Note 1.

Installation:

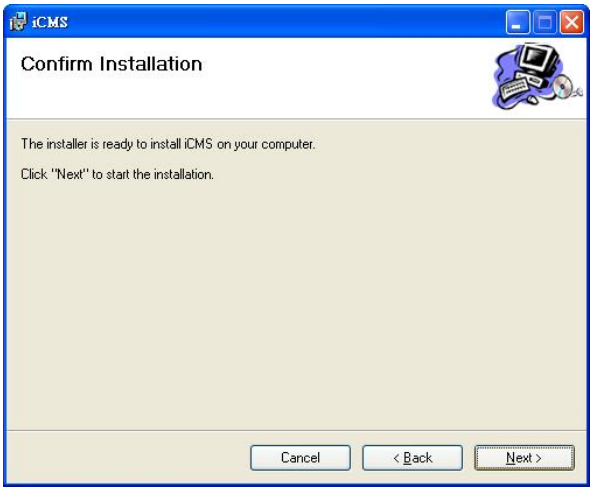
1. Connect to the manufacturer's website and download the CMS software.
2. Decompress and execute "**setup.exe"**.
3. If "Visual C++ Runtime Libraries" has not been installed before in the operating PC, the following sign will suggest an installation automatically.

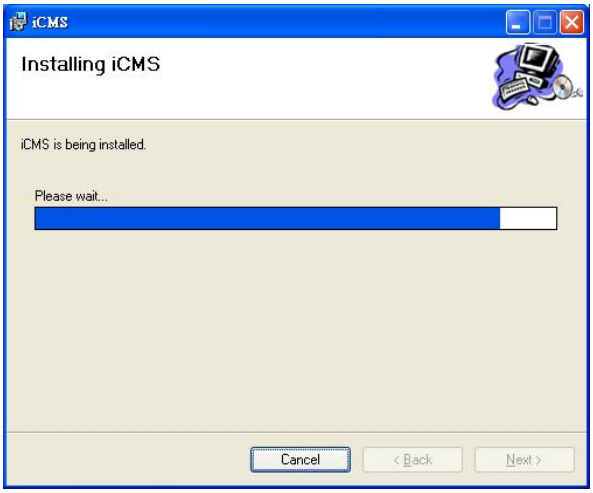

iCMS Setup
The following components will be installed on your machine:
Visual C++ Runtime Libraries (x86)
Do you wish to install these components?
If you choose Cancel, setup will exit.
Install
Cancel

4. Select "**Next"**, and then select "**Browse"** to change installation path if needed. To check available space on hard disk, please select "**Disk Cost**" then please select "**Next**" to the next step.

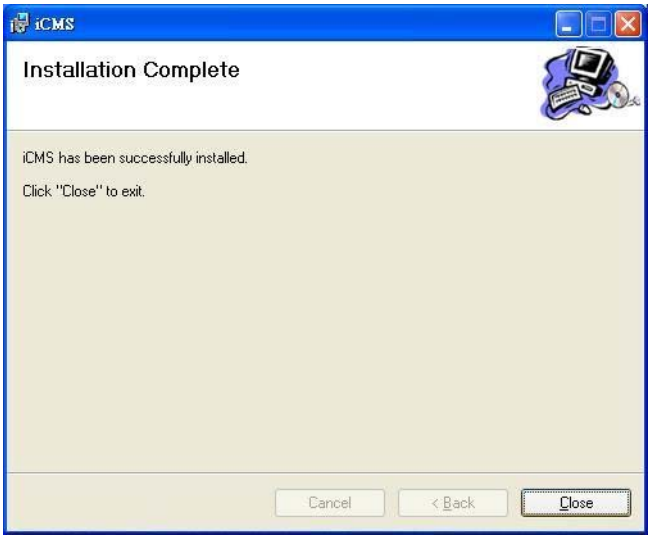

iCMS
Select Installation Folder
The installer will install iCMS to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\iCMS\
Browse...
Disk Cost...
Cancel
< Back
Next >

5.”**Confirm Installation**” window shows. Select ‘**Next’** then the installation starts.


iCMS
Confirm Installation
The installer is ready to install iCMS on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

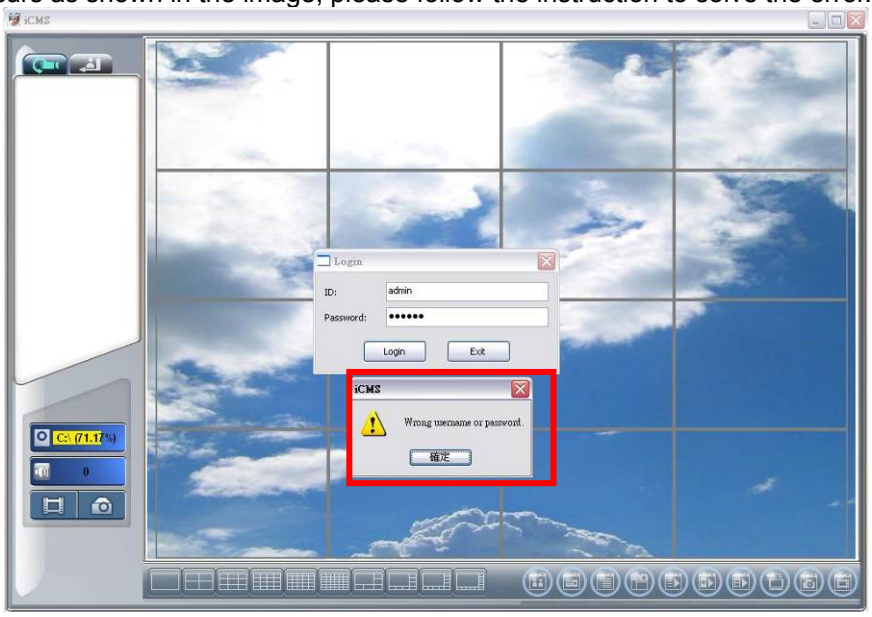


6. Select ‘**Close’** to finish installation when the “**Installation Complete**” window shows.



Instruction for Log-in Failure to CMS after Upgrade

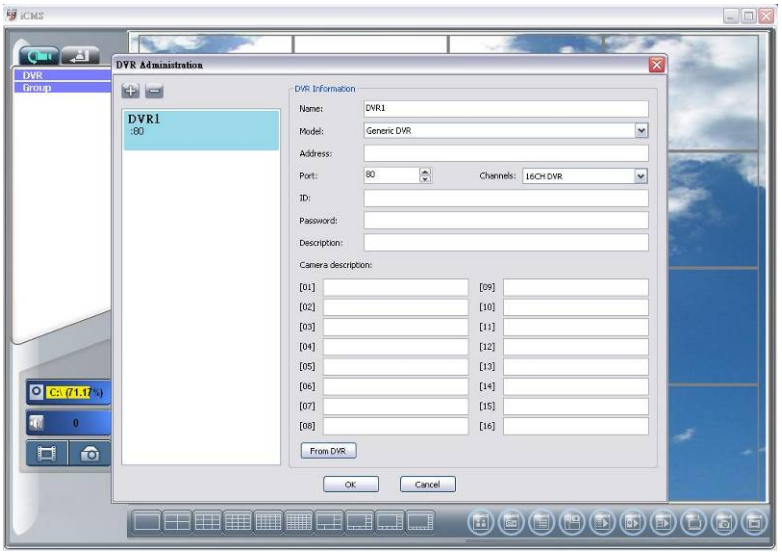
Log in to CMS with the default account and password after CMS upgrade. If an error message occurs as shown in the image, please follow the instruction to solve the error.



Step 1: Please enter file manager to enter folder, “Windows” and then folder “Systme32” (ex:C:\Windows\System32)

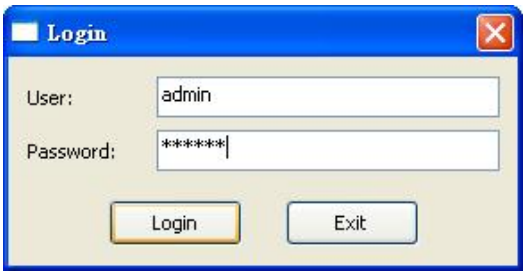
Step 2: Locate file, “iCMS.dat” and delete it.

Step 3: Restart CMS. Log-in successfully.

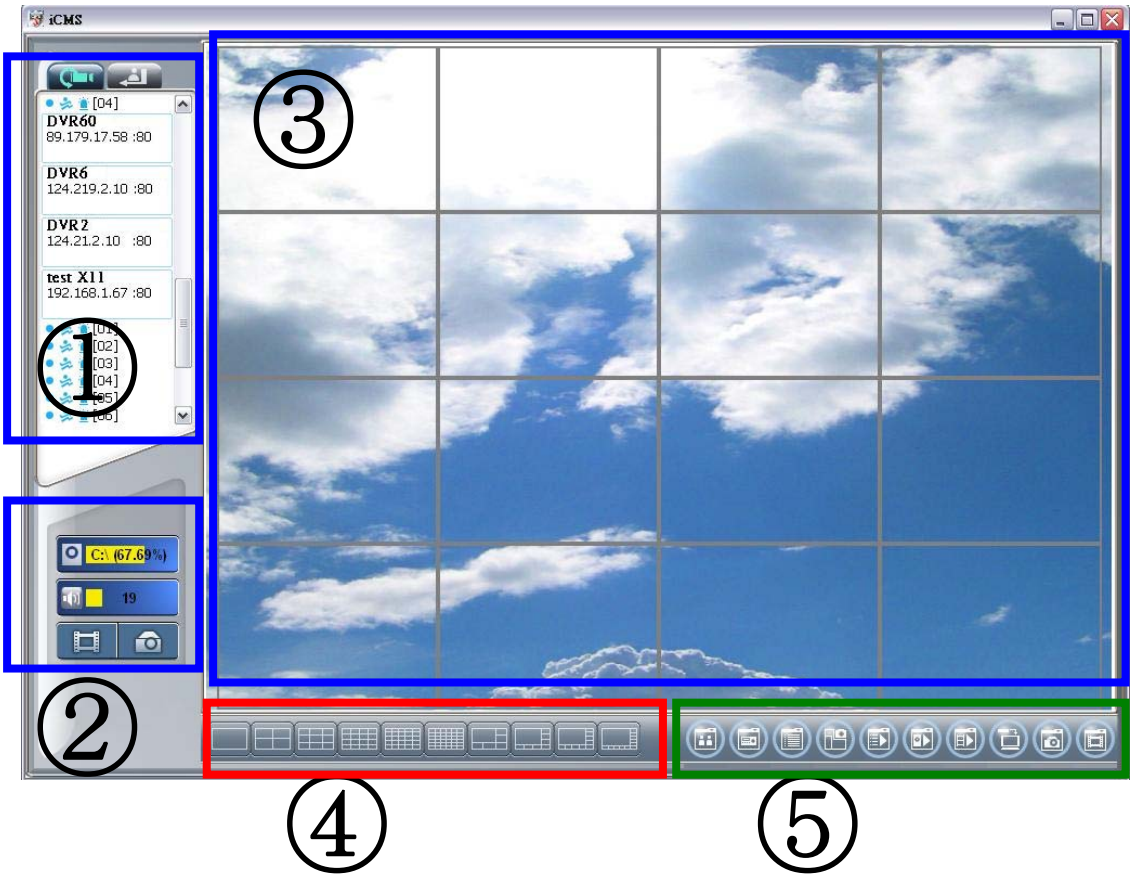


9-2 CMS LOGIN AND ENVIRONMENT

To enter CMS, the administrator's user name and password are required. The defaults are 'admin' and '123456'.



After successful login, the following image shows on your screen:



① **DVRs, Groups & Events**	Information about DVRs, groups and events. See "9-3 Information List" for more detail.
② **PC information and control**	Information about local PC's hard disk, volume, recording...etc. See "9-4 PC Information and Control" for more detail.
③ **Main Display**	Live image display area. See "9-5 Main Display" for detail.
④ **Display Modes**	Several choices of display modes supported by CMS.
⑤ **Operation Bar**	A set of 10 operations are provided by CMS. See " 9-6 Operation Bar" for detail.

9-3 DVRs, Groups & Events

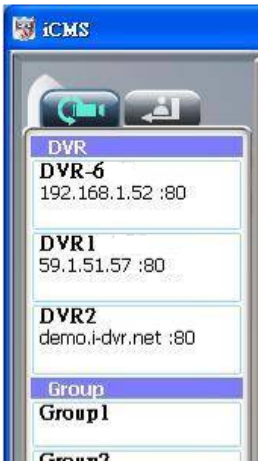
Icon	Description
	View list of logged in DVR／ Group.
	View Logs: list all the event information of DVR

9-3.1 View DVR／Group List

Single left click on '**DVR'** or '**Group'** will expand/collapse the entire DVRs and groups list.

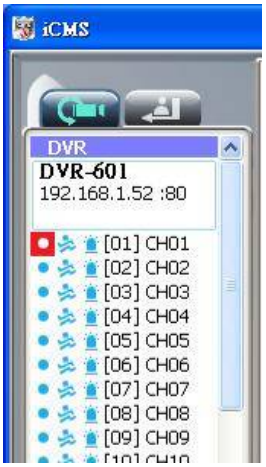
On the DVR list, **double left click on a connected DVR will show its image in main display.** See "9-6.2 DVR Administration" for further information.

On the Group list, **double left click on a group will show live image from the channels of the group in the main display.** See "9-6.3 for Group Administration" for further information.



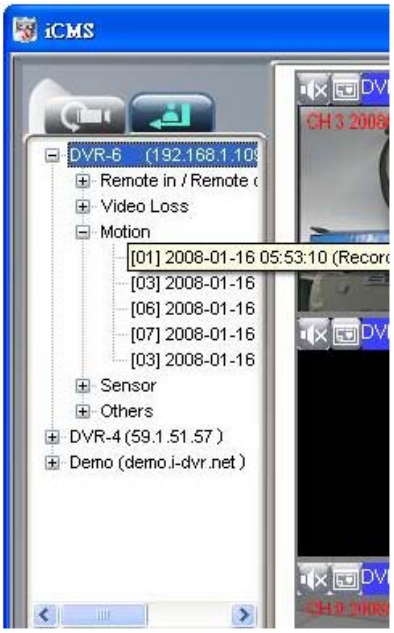
Left-clicking on a connected DVR will expand/collapse status of its all channels as below:

Icon	Description
	Video Loss
	Motion Detected
	Sensor Triggered



9-3.2 View Event Logs

Under this page, all the events of a DVR can be expanded/collapsed in the order of Re mote in/Remote out, Video Loss, Motion, Sensor, Others (Power Reset, Key Lock, Key Unlock, HD Full).



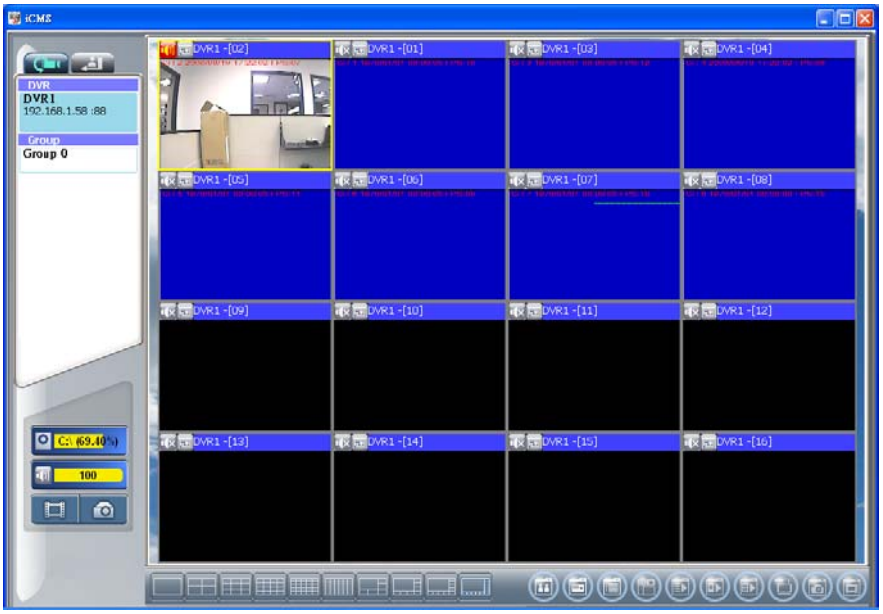
9-4 Local PC Information and Control

Located at the left lower corner of the screen, please see the chart below:

Icon	Function	Description
	HDD info	Shows the ratio of available space / HDD capacity of C:\ drive (where CMS is installed).
	Recording Directory	Setting Recording Directory. (Default is C:\Program files\iCMS)
	Recording Cycle	Set the capacity size of the Recording space. (minimum is 10MB)
	Volume	PC volume or playback volume control bar.
	Recording	Record live image to local PC storage. To view locally stored data, use “Record” under the operation bar. Also see “9-6.6 recording data” for detail.
	Snapshot	Take snapshot to save in local PC storage. To view all the snapshots you’ve taken, please go to ” Snapshot” under the operation bar. See “9-6.5 Snapshot data” for detail.

9-5 Main Display

The main display area is where the live image of DVR is shown. You can drag to change the location of screen for each channel and turn on/off audio signal with mouse-click.



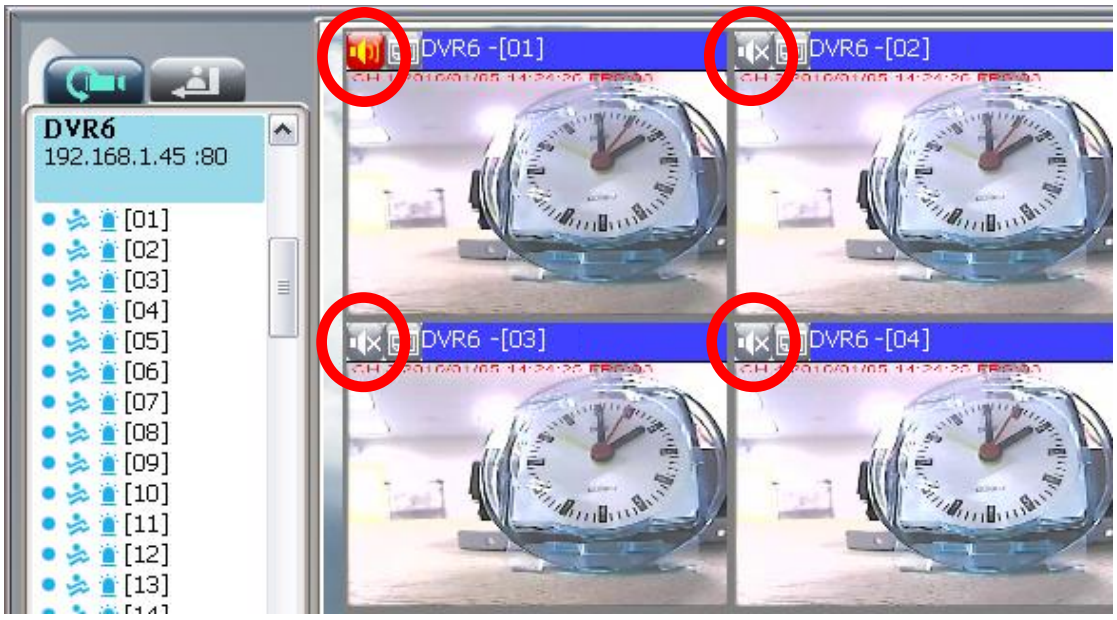
9-5.1 Audio Control

In live mode, you can turn on/off the audio signal of Ch1~Ch4:

「 」 Audio signal is On

「 」 Audio signal is Off

Turn on/off by clicking on the graphical icon, please note there can allow only one chan nel's audio signal to be on at one time.



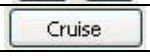
9-5.2 eMAP Display

In Live mode, pressing will bring the e-MAP drag-down menu. If the channel has been set up to use e-MAP, the menu will show all the e-MAP titles that have been entitled to this channel; otherwise, "No eMaps" will be shown. Please check "**9-6.4 eMAP administration"** for setup information.

9-5.3 PTZ Control

In the main display, right click on the channel will bring up PTZ control panel as below.

demo 610 -[01]
Set PTZ Preset:
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Goto PTZ Preset:
Auto Tour
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
PTZ Sensitivity:
[Cruise]
B C S
+

Icon	Description
8 direction key	Rotate the PTZ
	ZOOM+ : Zoom in
	ZOOM : Zoom out
	Setup the PTZ spot as pre-set N.
	FOCUS+ : Focus in
	FOCUS- : Focus out
	Move to pre-set N.
Set PTZ Preset	Setup 16 pre-set N.
Goto PTZ Preset	Move to specific pre-set N.
	Activate auto pre-set tour*
PTZ Sensitivity	Setup PTZ sensitivity*
	Setup the “start” and “end” of liner scan.*
	Activate the liner scan cruise.*
B	Adjust the Brightness (Down is +)
C	Adjust the Contrast (Down is +)
S	Adjust the Sharpness (Down is +)

*PTZ communication protocols from different brands aren’t compatible 100% sometimes. Therefore, some of these functions may be unavailable.

9-6 Operation Bar

10 Operations to be listed as below:

Table 9-6.1 description of 10 operations:

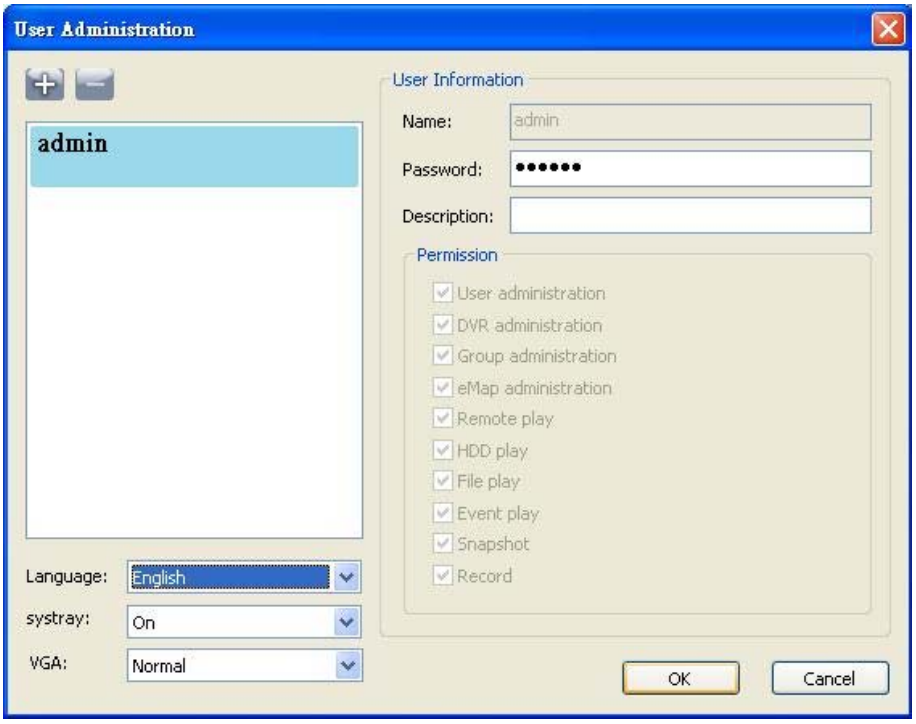
Icon	Description
	User Administration. Please see “9-6.1 User administration”
	DVR Administration. Please see “9-6.2 DVR Administration”
	Group Administration. Please see “9-6.3 Group Administration”
	eMap Administration. Please see “9-6.4 eMap Administration”.
	Remote Playback. Please see “9-6.5 Remote Play”.
	HDD Playback. Please see “9-6.6 HDD Play”
	File Playback. Please see “9-6.7 File Play”
	Event Playback. Please see “9-6.8 Event Play”
	Snapshot Data. Please see “9-6.9 Snapshot”
	Recording Data. Please see “9-6.10 Recording”

9-6.1 User administration

Before the CMS can be used on a PC, user accounts should be added with proper authority. Each user should also be assigned a password and optionally a description. If a user does not have certain authority assigned, he/she will not be able to operate the corresponding function on the Operation Bar. The default is none of the authority is assigned. The administrator should assign proper authority to each user. These user accounts can be deleted or edited later on.

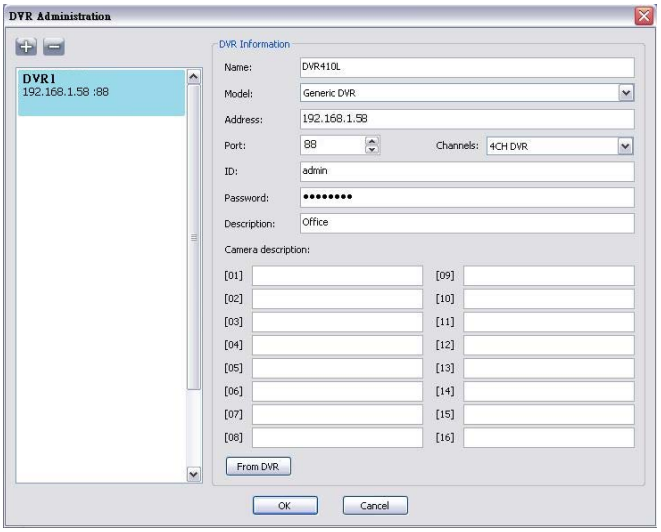
Select "**OK"** to save the setup.

Icon	Description
	Add a user account. The default authority is with none permission.
	Delete a user account.
Language	Switch display language
systray	If the turn on this feature, when the program reduced, it will be based in the sys tem tray icon. (This feature is switched on / off, the need to re-open the CMS until after the pr ogram in force)
VGA turbo	Increase the VGA efficiency



9-6.2 DVR Administration

DVR connections can be added to or deleted from the CMS and their information can be edited. DVR's channel names can be entered here or downloaded from the DVR by pressing '**From DVR**'. Select "**OK**" to save the information.



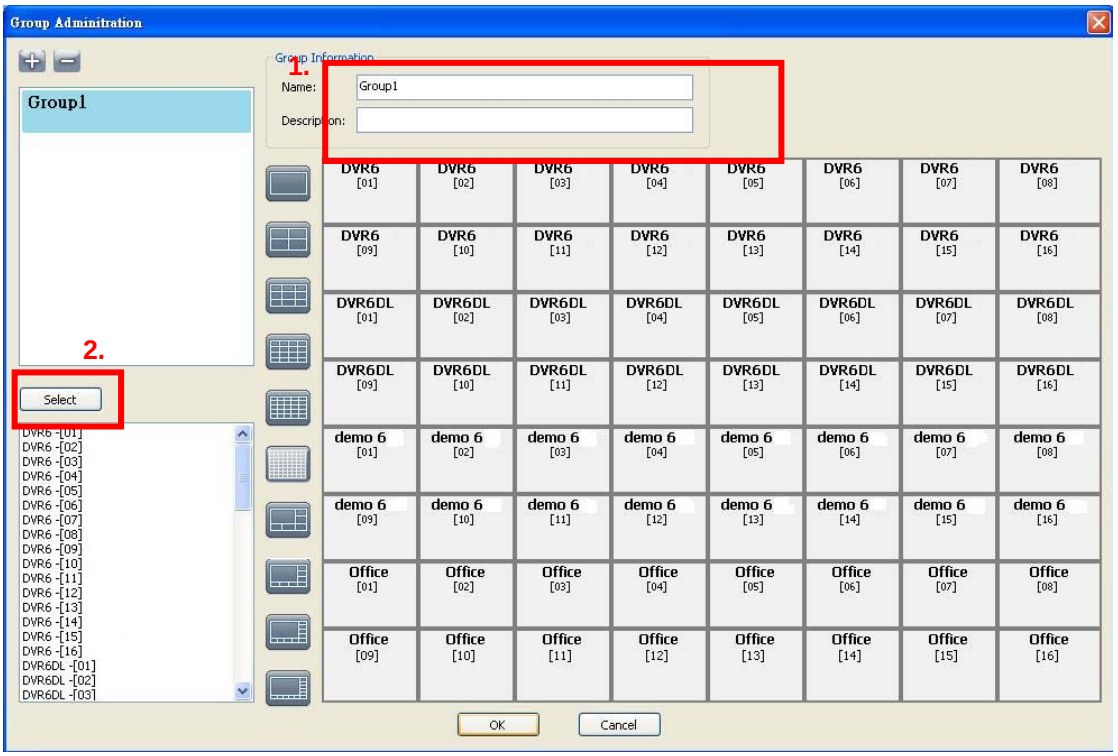
Name: DVR Name(Unrepeatable)
Model: DVR Model
Generic: For General Models
Generic MainStream: For DualStream Model
Address: DVR IP Address
Port: DVR Network Port
Channel: DVR Camera Number
ID: DVR Login Account
Password: DVR Login Password
Description: Other Description
Camera Description: Carera Description
From DVR: Load Camera name from DVR

9-6.3 Group Administration

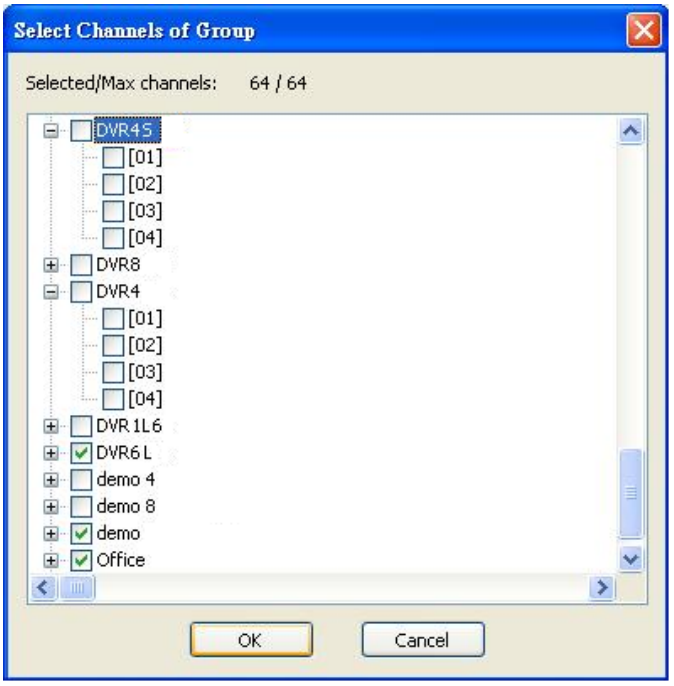
A 'Group' means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manager channels from multiple DVRs easily and flexible.

Steps:

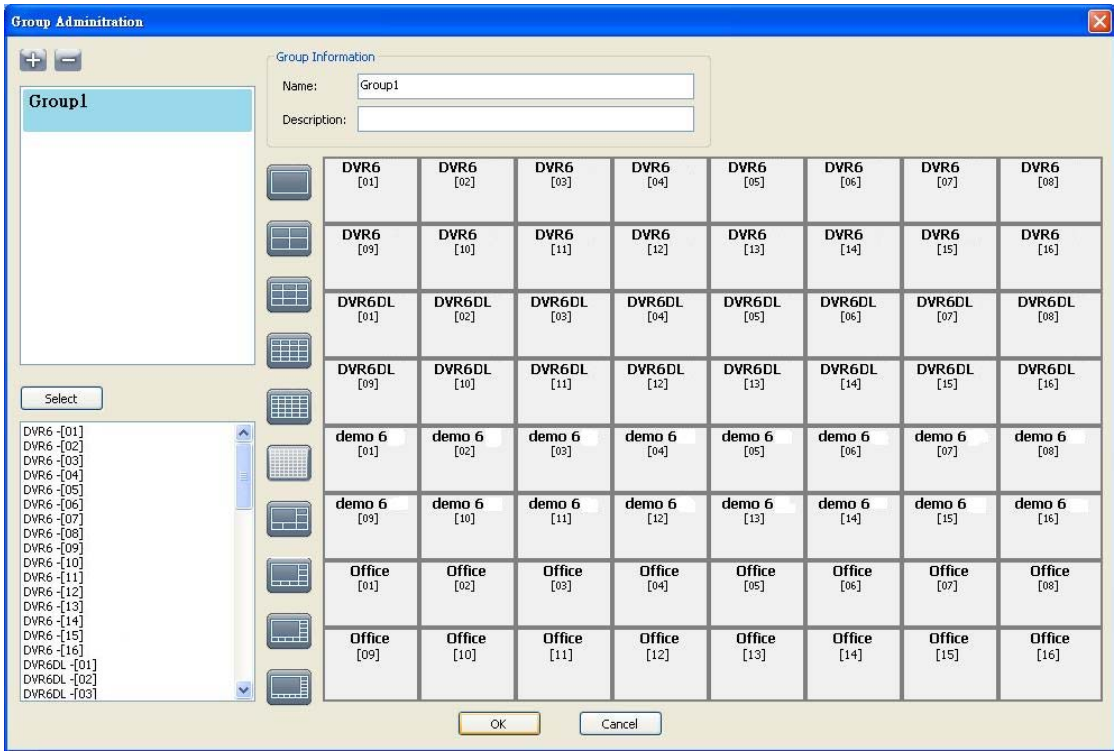
1. Add a new group and set its name and description.
2. Click '**Select**' which will bring up a new window.



3. Check the specific channels that you'd like them to be included in the group. To include all channels of a DVR, just check the DVR.(1 Group up to select 64 camera)



4. Click "**OK**" to return to the previous window.
5. Select a display mode.
6. Drag a channel from the lower left panel into the main display to a preferred location. Or, change the channel location in the main display by mouse dragging.
7. You can '**Select**' again to add other channels, but the un-saved channel locations will be lost.
8. Click "**OK"** to save the setup.

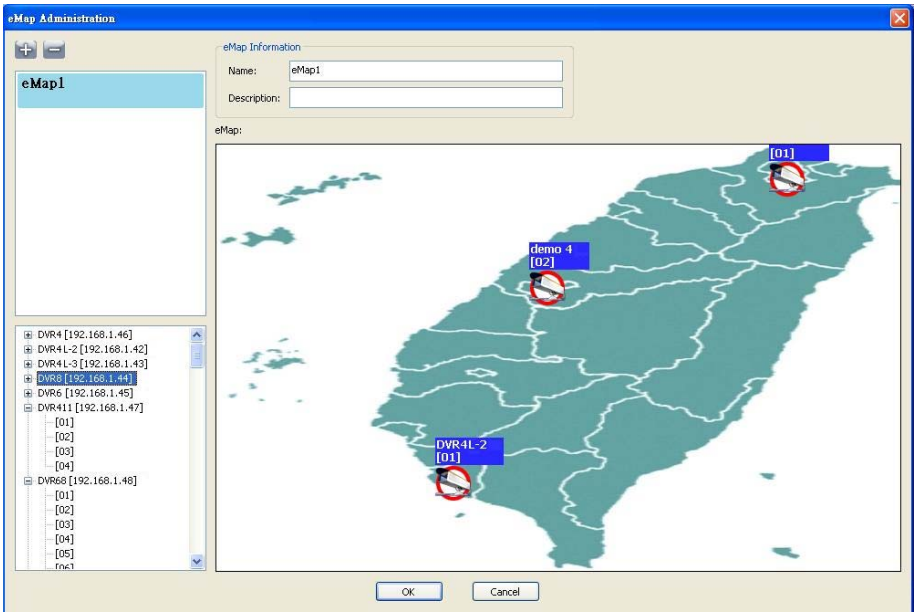


9-6.4 eMap Administration

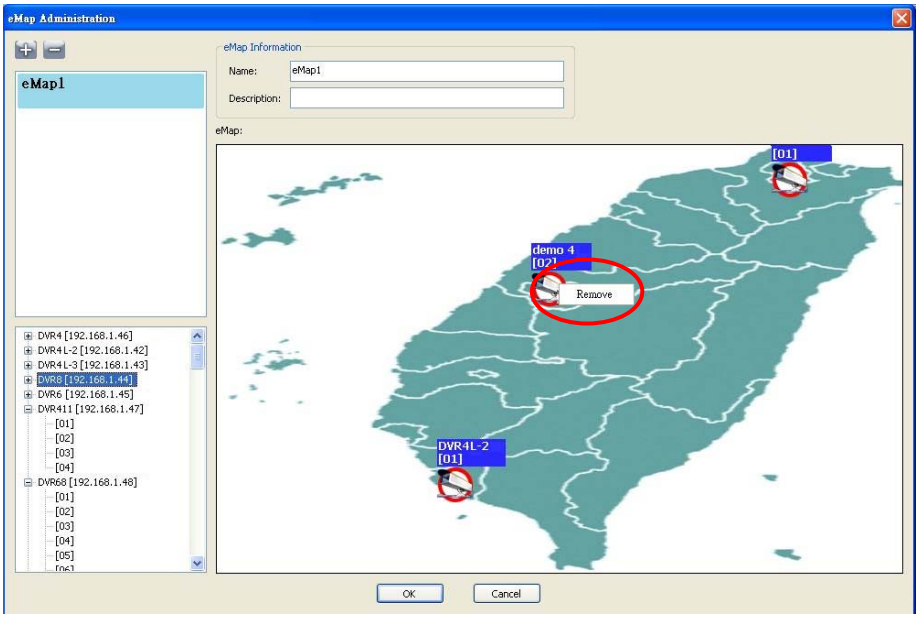
If geographical locations are relevant, or if it is desired to use a picture as the background, eMap can be used for the purpose. With eMap, the background picture can be picked by the user and channels from multiple DVRs can be placed and dragged around on the picture.

Steps to follow:

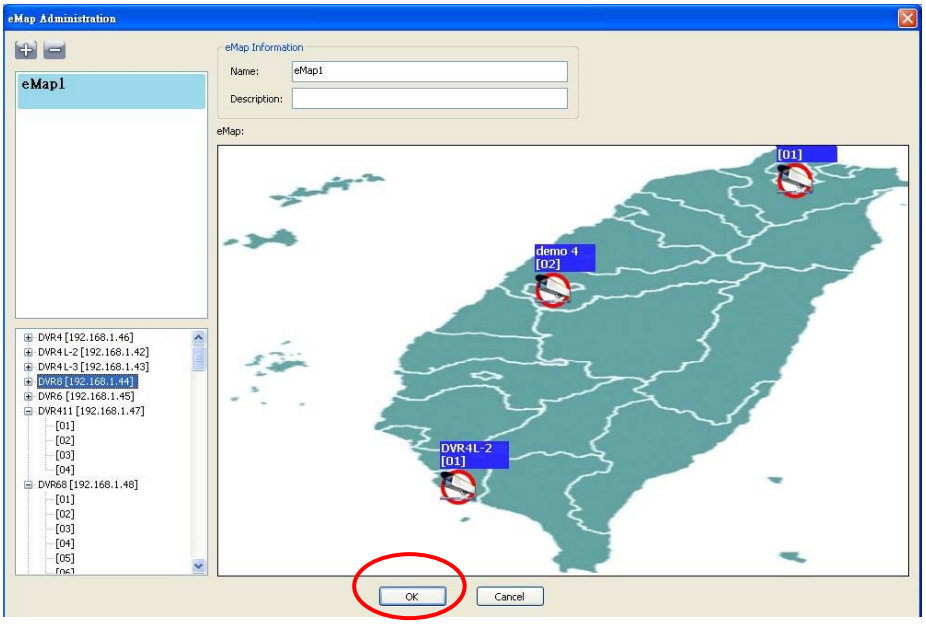
1. Click and a path for the picture will be prompted.
2. Select a picture, click OK and the picture will show in the right panel.
3. Drag channels in the left lower corner onto the picture to any position.



4. To delete a channel already on the picture, right click the channel and click ‘Remove’.

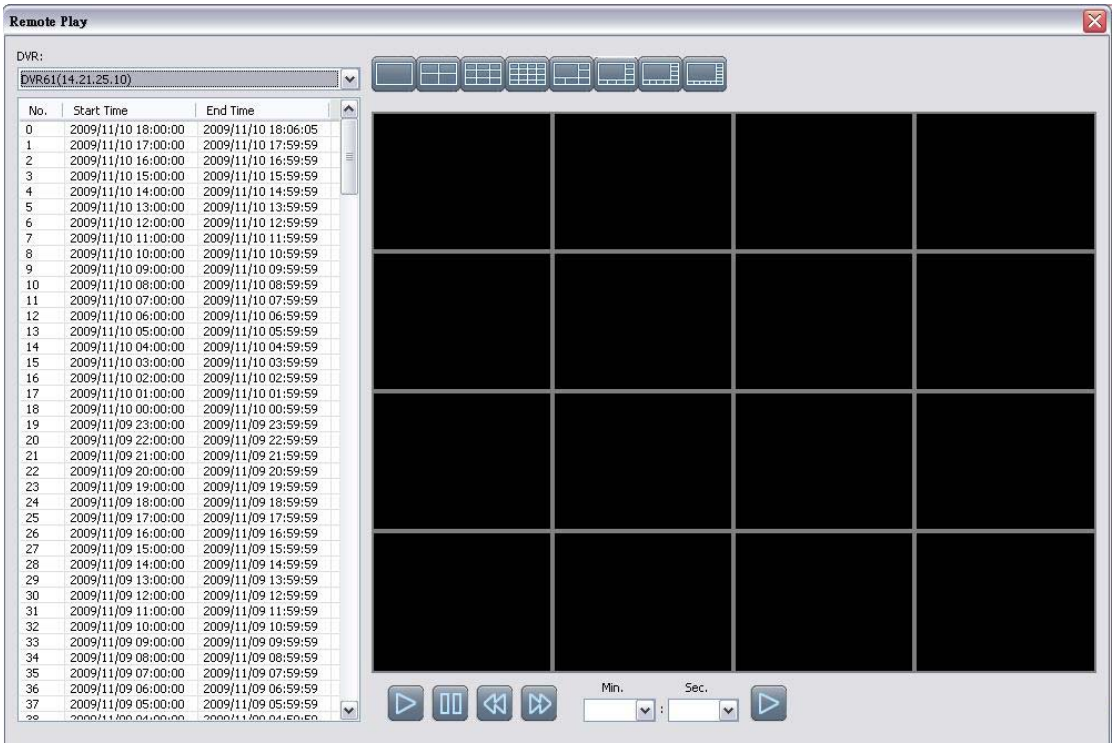


5. Click OK to save.



9-6.5 Remote Play

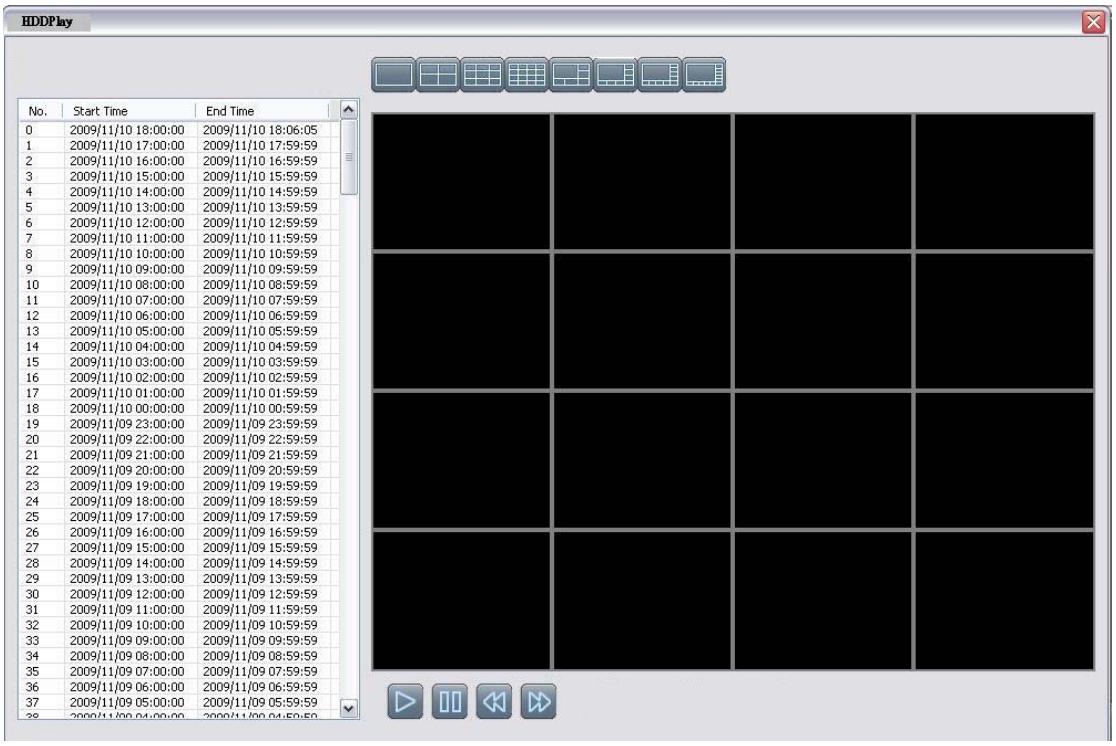
Video images recorded on a DVR can be displayed on a remote CMS. With Remote Play function, select a DVR and a display mode on top of the screen. After the recorded segments are listed below, double click on one to show its image on the right.



Icon	Description
	Start playing.
	Pause.
	Fast forward.
	Fast rewind.
	Select the clip you want to watch the number of minutes and seconds,Press the right button is set to start playing

9-6.6 HDD Playback

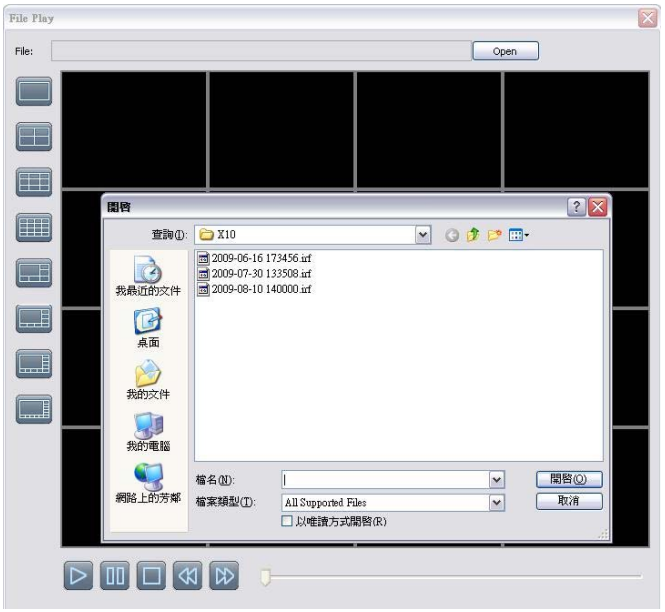
You can directly play the recording data in the HDD that's uninstalled from DVR by CMS. See the picture below, the left part of screen is recording data in list that's separated by hour and the right part is main display. You can change the display modes and play files fast forward or rewind.

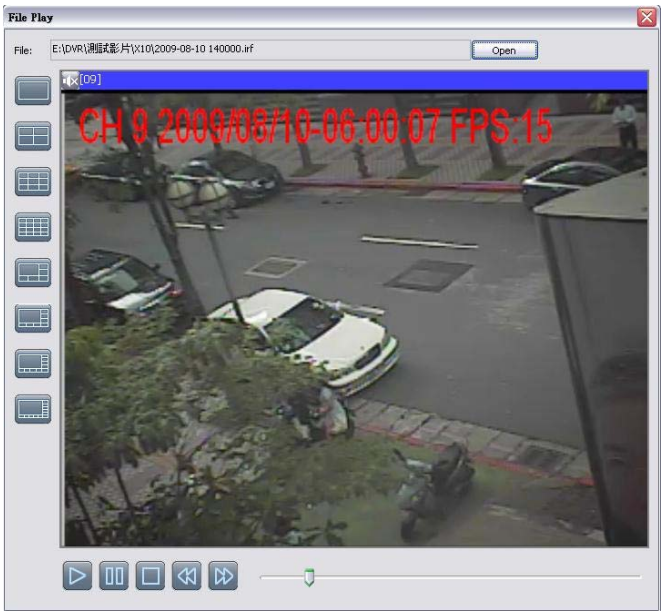


Icon	Description
	Start playing.
	Pause.
	Fast forward.
	Fast rewind.

9-6.7 File Playback

You can play the recorded **.irf** files by “File Play” in CMS. It allows you to change the display mode, forward or rewind the file and drag the time bar.





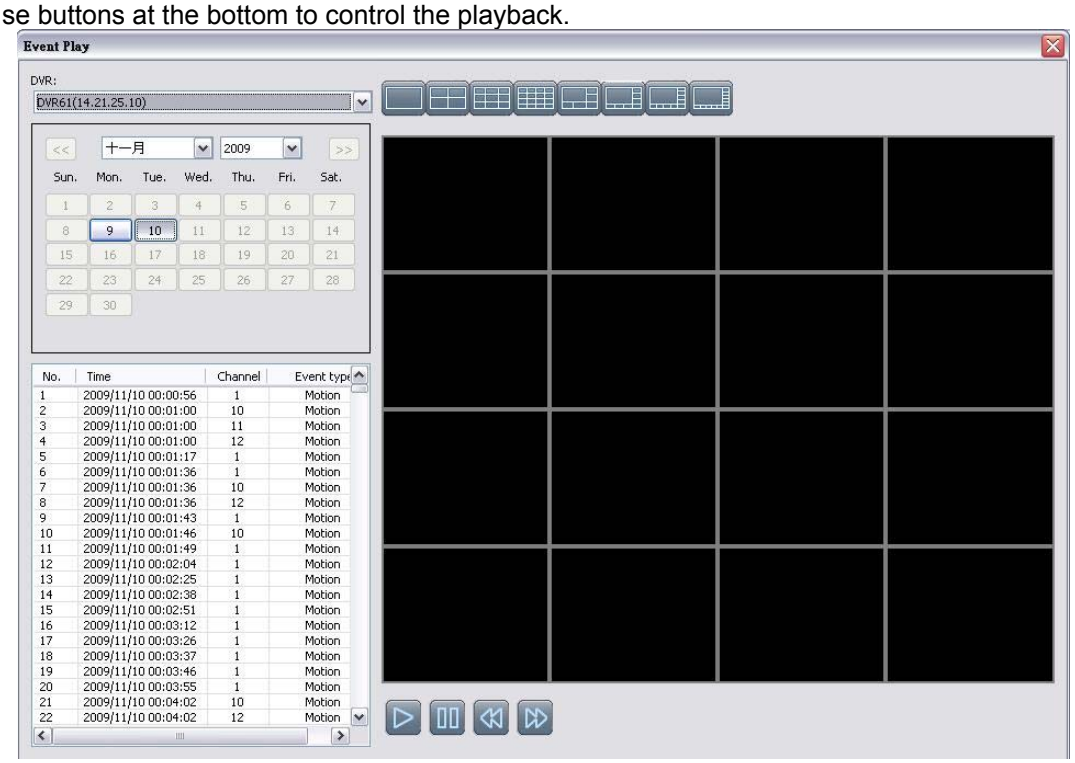
Icon	Description
	Start playing.
	Pause.
	Stop playback.
	Fast forward.
	Fast rewind.

9-6.8 Event Playback

Event recordings on the DVR can be played back in CMS.

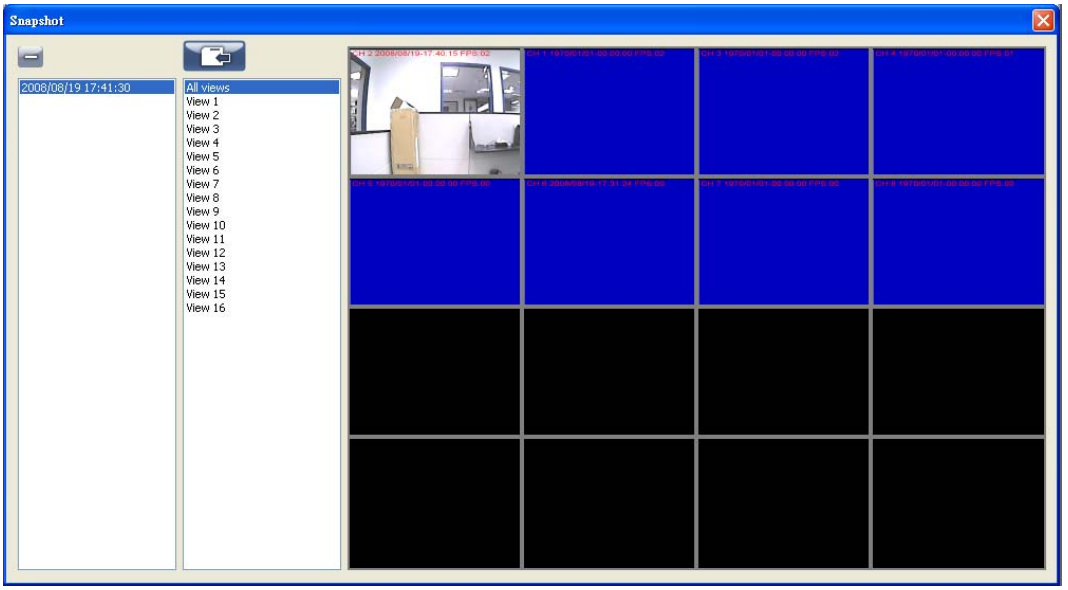
Steps to follow:
1. Select a DVR and a display mode.
2. Select a date.
3. Double click an event and play back the images on the right.

Use buttons at the bottom to control the playback.



9-6.9 Snapshot Data

It can display all the snapshots you've taken in line in "Snapshot Data". You can review, delete or save as other files here.



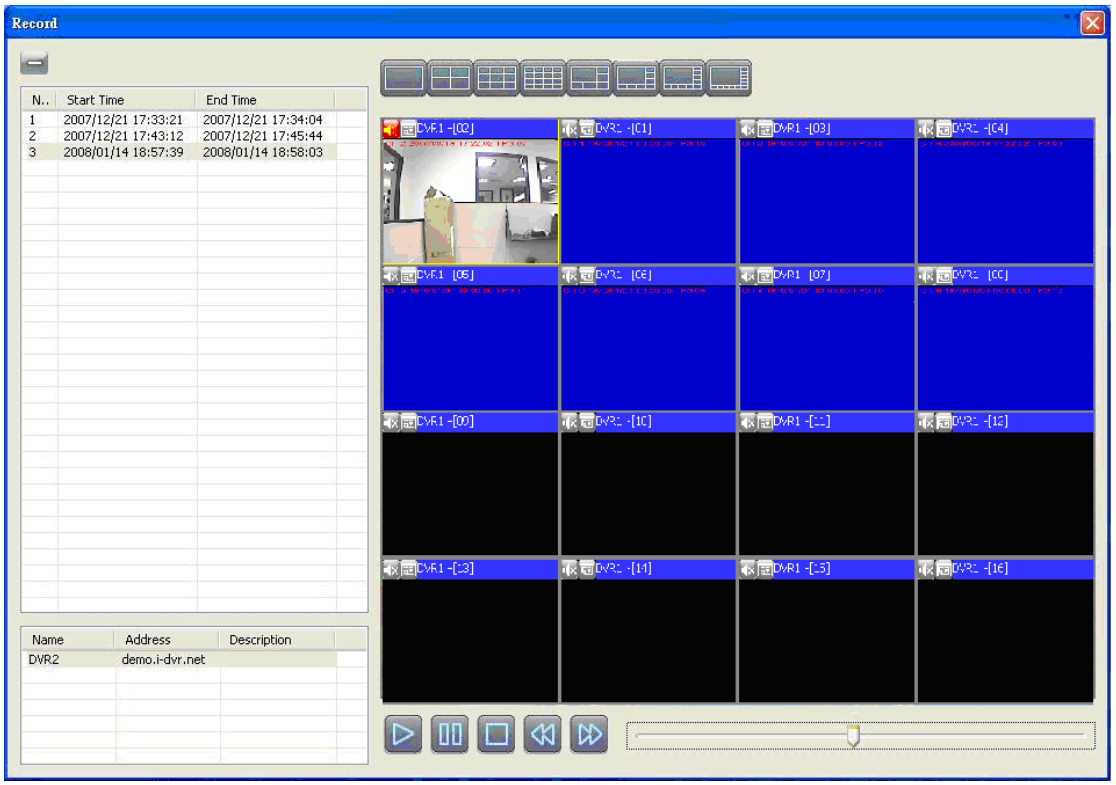
*Capture images of the date and time will follow the PC-time display

9-6.10 Recording Data

It can play all the recording files you've recorded in line in "Recording Data". You can play or delete them here.

Steps to follow:

1. Choose the recording time at upper left corner, it will be played on the main display.
2. You can choose the display mode.
3. Time bar will be shown at right lower corner, please drag the time bar to specify the recording time you'd like to play.



Icon	Description
	Start playing.
	Pause.
	Stop playback.
	Fast forward.
	Fast rewind.

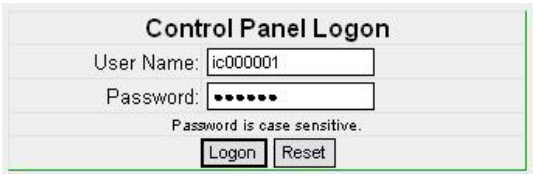
APPENDIX Ⅰ I-DVR.NET REGISTRATION

DDNS Registration on I-DVR.NET

In the package of each DVR, you will find a sticker shows account information including username and password that allows users to login I-DVR.NET for registration.

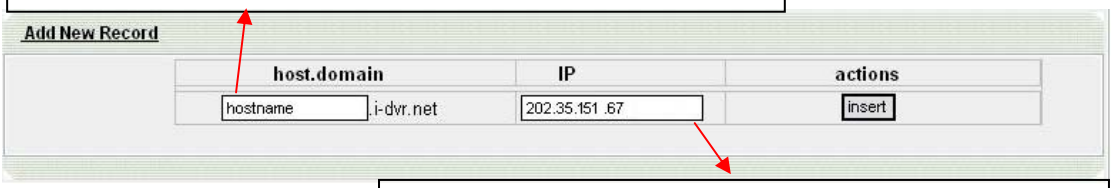
To register DDNS on I-DVR.NET, please follow the steps as shown.

Step 1. Please open IE browser and then enter " http://i-DVR.NET/logon.asp " in IE browser bar. Next, "Control Panel Logo" dialog will appear. Enter the username and password provided by the sticker and then press, "Logon."



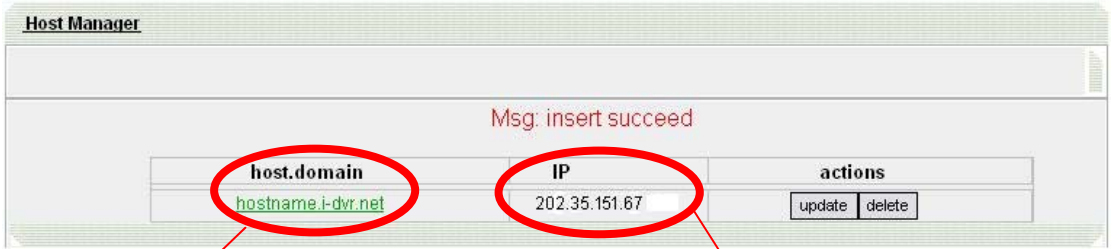
Step 2. After login successfully, enter name at "host" in "Add New Record" dialog. For example, "hostddns" is the host name, and then the address will be "hostddns.idvr.net." Select "Standard" type and enter an IP address of the DVR. Input known IP address if any, or press the "Add New" button if none.

Please enter any name by your choice at Column, "host.domain"
For example, "hostname"
Therefore, IE address will be "hostname.i-dvr.net"



System will automatically show the current computer IP.
If the DVR IP is known, you can type it in the column.
If not, you can press "insert" button.

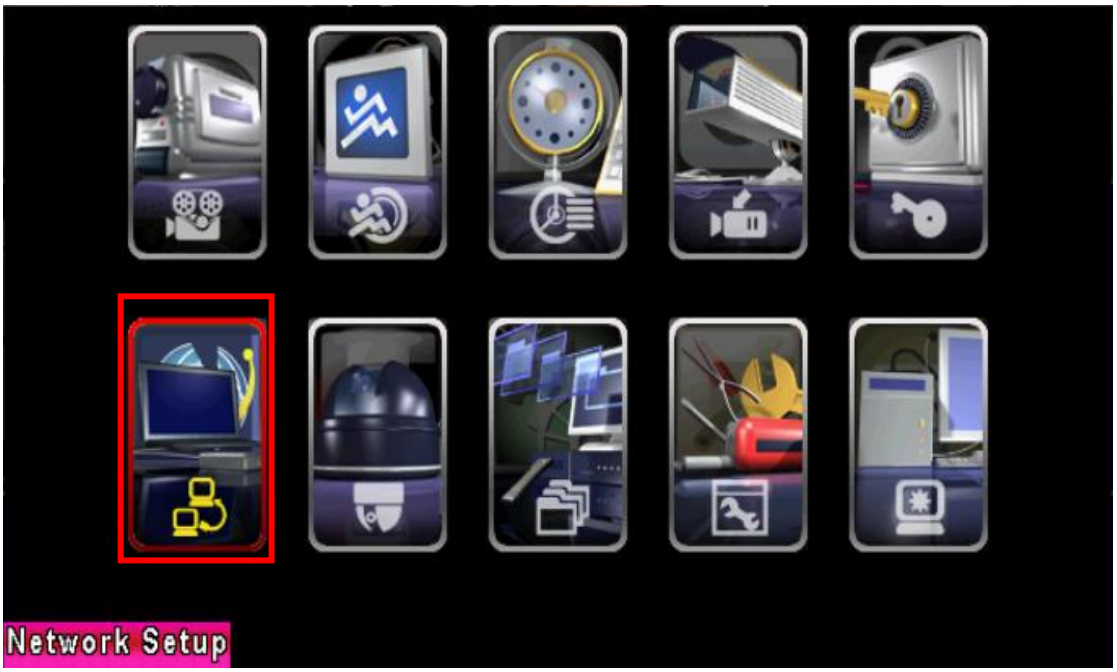
Step 3. The "Host Manager" dialog will show "insert succeed" when user setup successfully. The "**host.domain**" column will show up the setup just entered.
Next, enter the DVR the same time setting the DDNS client machine information
If DDNS set up at DVR side successfully, the website will update the IP information in one minute. The IP column will be renewed to the corresponding IP address by pressing "F5: refresh" button.

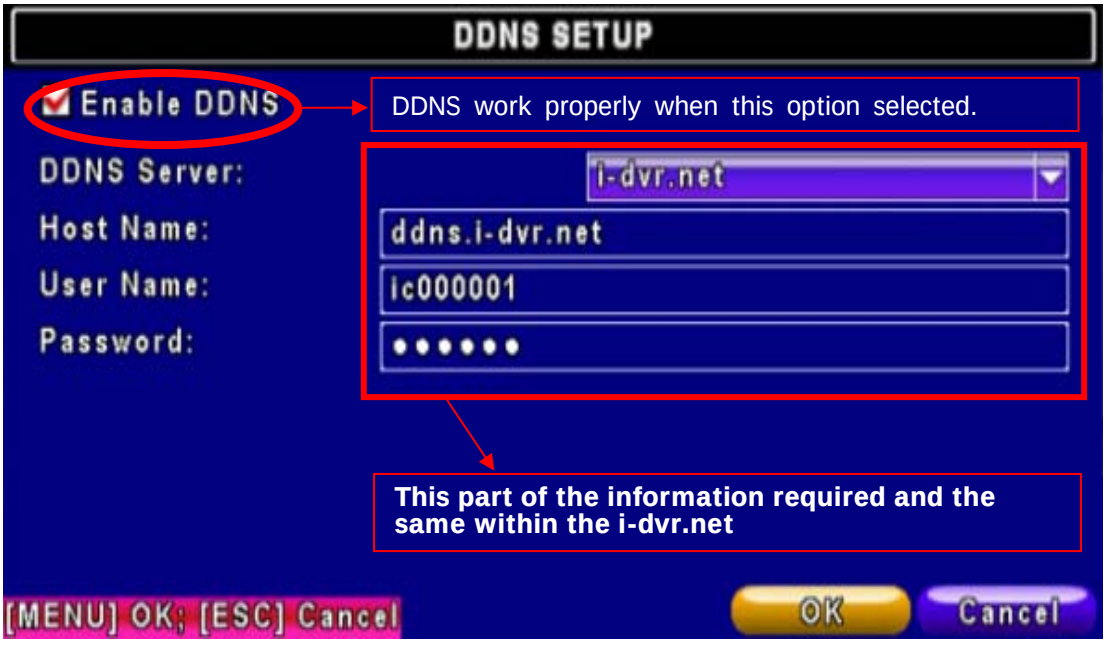


"host.domain" is named by your choice.
"ddns.idvr.net" is what the main server generates

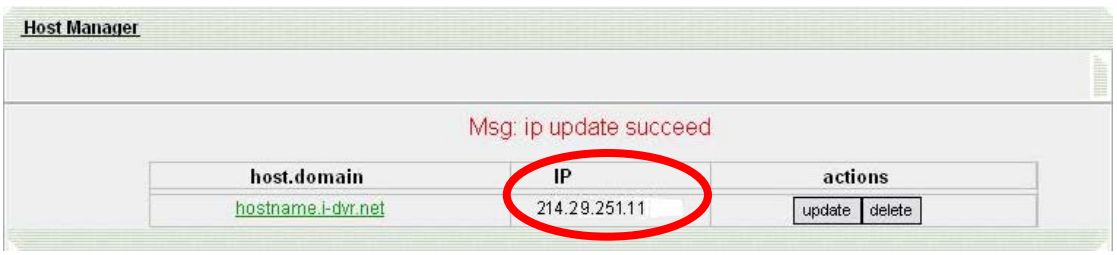
If DVR IP has any changes, there are updates Here at the same time. Press, "F5: Refresh"
And then IP column will update automatically to it's real IP Address.

Step 4. Enter DVR →Main Menu → Network Setup → DDNS. Activate DDNS functions and input related information.





Step 5. Back to the i-dvr.net, on this page by pressing "F5: Refresh", IP will be automatically updated into the DVR of the real IP location.

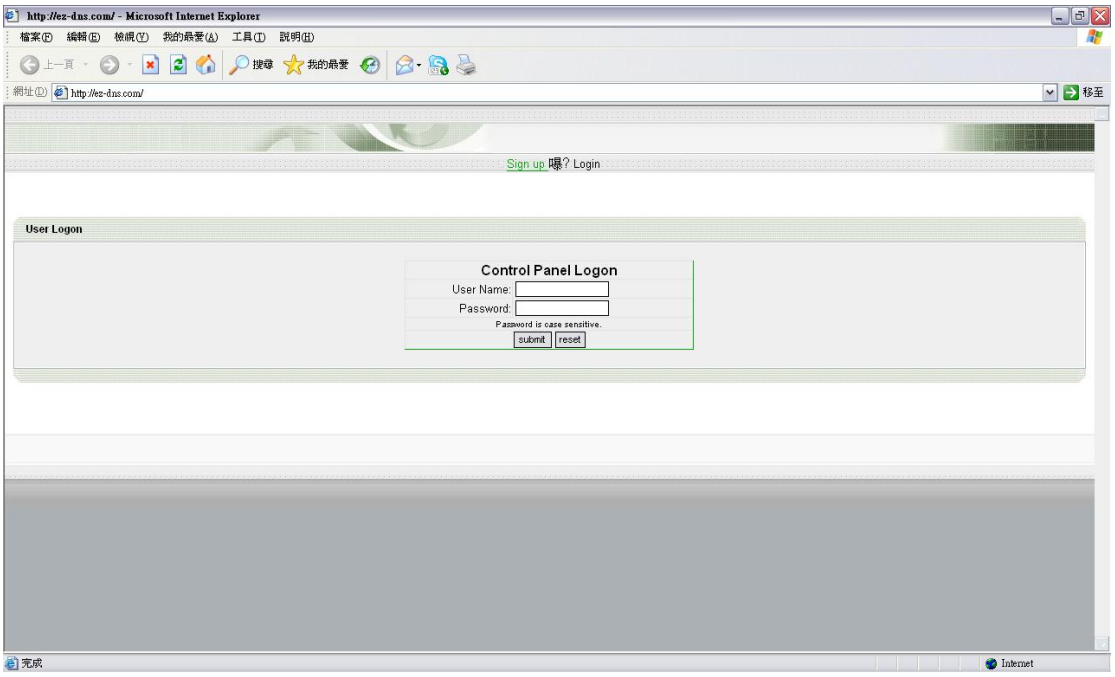


APPENDIX Ⅱ ez-dns REGISTRATION

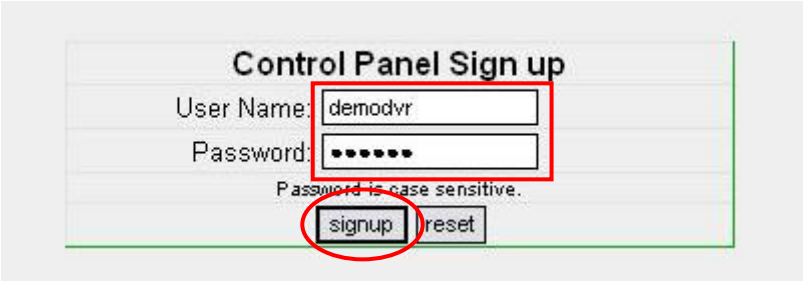
DDNS Registration on ez-dns.com

In addition to I-DVR.NET the Company, the other has a ez-dns.com server may be used..
To register DDNS on ez-dns.com, please follow the steps as shown.

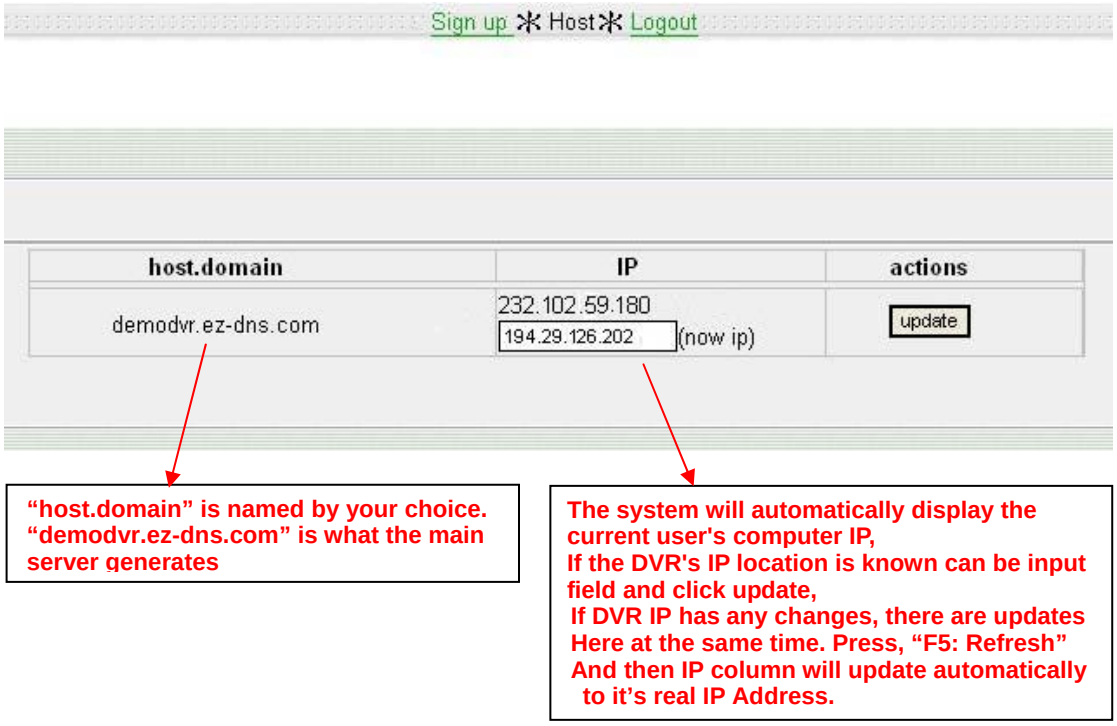
Step 1. Please open IE browser and then enter " http://ez-dns.com " in IE browser bar.
First time, please click on the top of the screen of "Sing up" (red box)



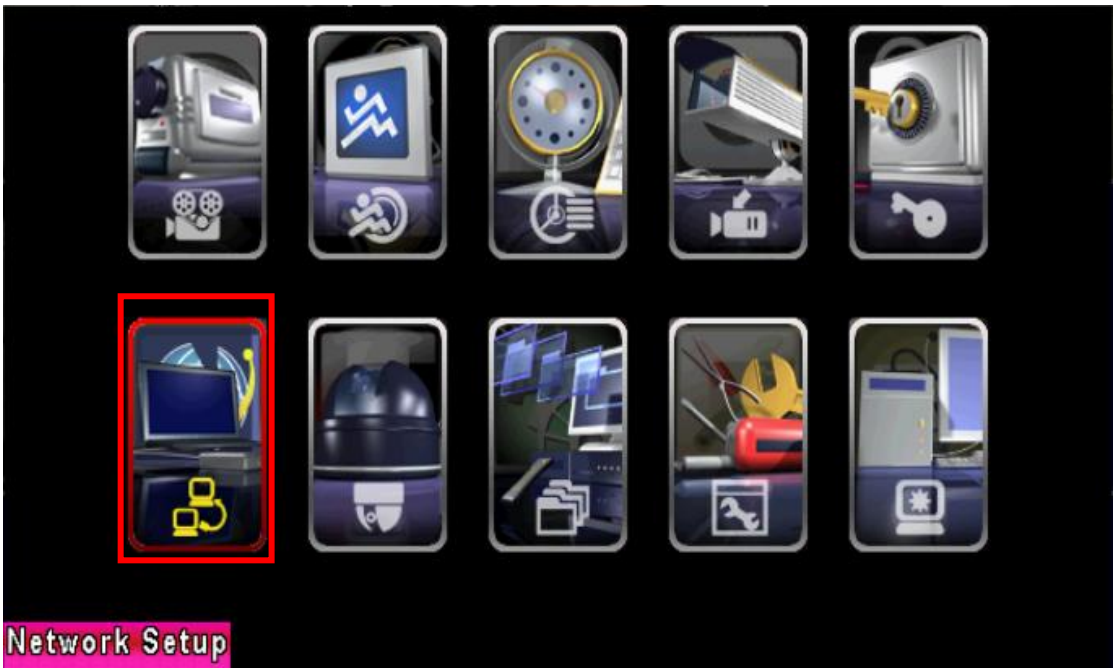
Step 2. To input a user name and password, after clicking "singup".
Later, log in to use ez-dns.com that this group account password

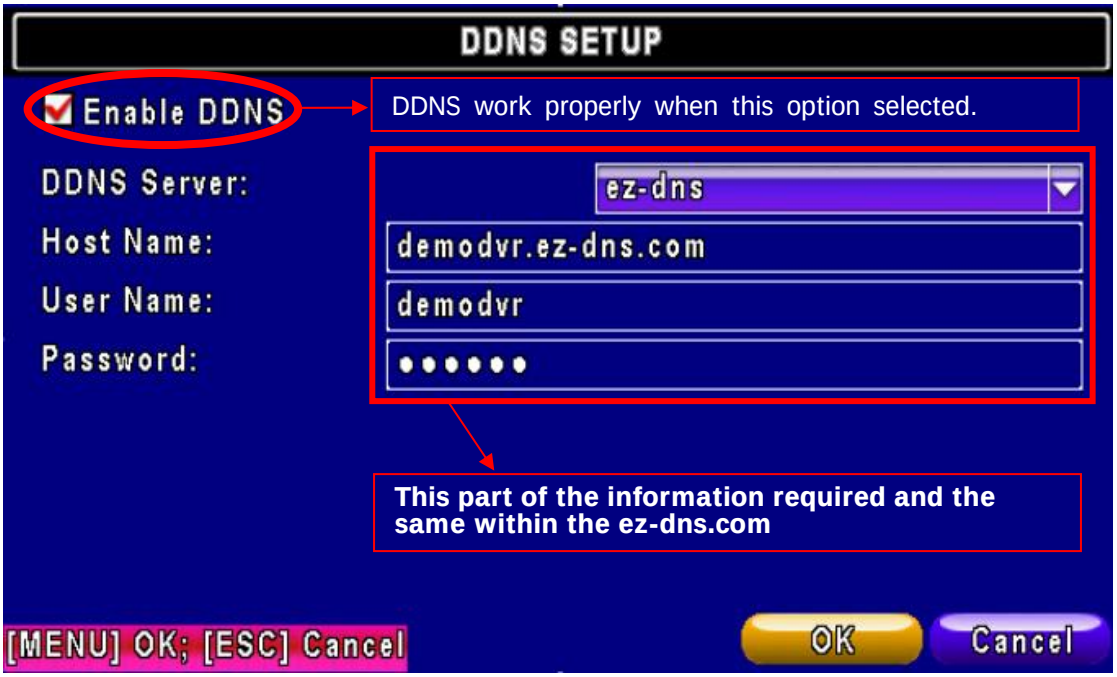


Step 3. The "**host.domain**" column will show up the setup just entered.
Next, enter the DVR the same time setting the DDNS client machine information
If DDNS set up at DVR side successfully, the website will update the IP information in 10 minute. The IP column will be renewed to the corresponding IP address by pressing "F5: refresh" button.


Sign up
Host
Logout
host.domain
IP
actions
demodvr.ez-dns.com
232.102.59.180
194.29.126.202
(now ip)
update
"host.domain" is named by your choice. "demodvr.ez-dns.com" is what the main server generates
The system will automatically display the current user's computer IP,
If the DVR's IP location is known can be input field and click update,
If DVR IP has any changes, there are updates Here at the same time. Press, "F5: Refresh"
And then IP column will update automatically to it's real IP Address.

Step 4. Enter DVR →Main Menu → Network Setup → DDNS. Activate DDNS functions and input related information.



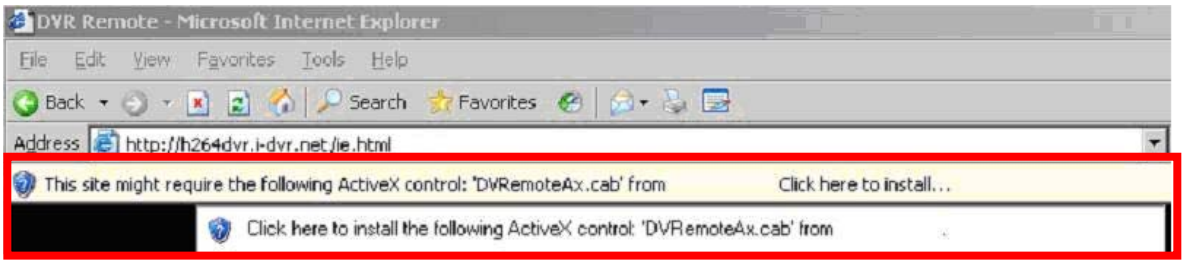


Step 5. Back to the ez-dns.com, on this page by pressing "F5: Refresh", IP will be automatically updated into the DVR of the real IP location.

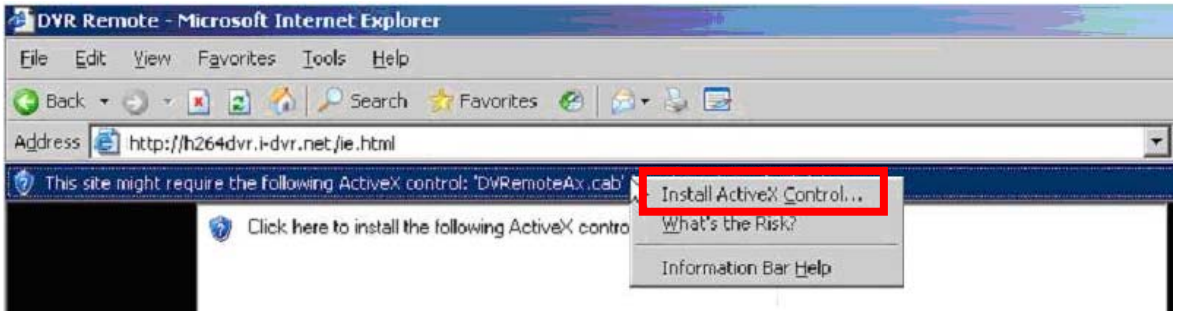
APPENDIXⅢ Remote Monitoring IE ActiveX Control Installation Instruction

When using IE for remote monitoring for the first time, IE ActiveX Control is needed to be downloaded.

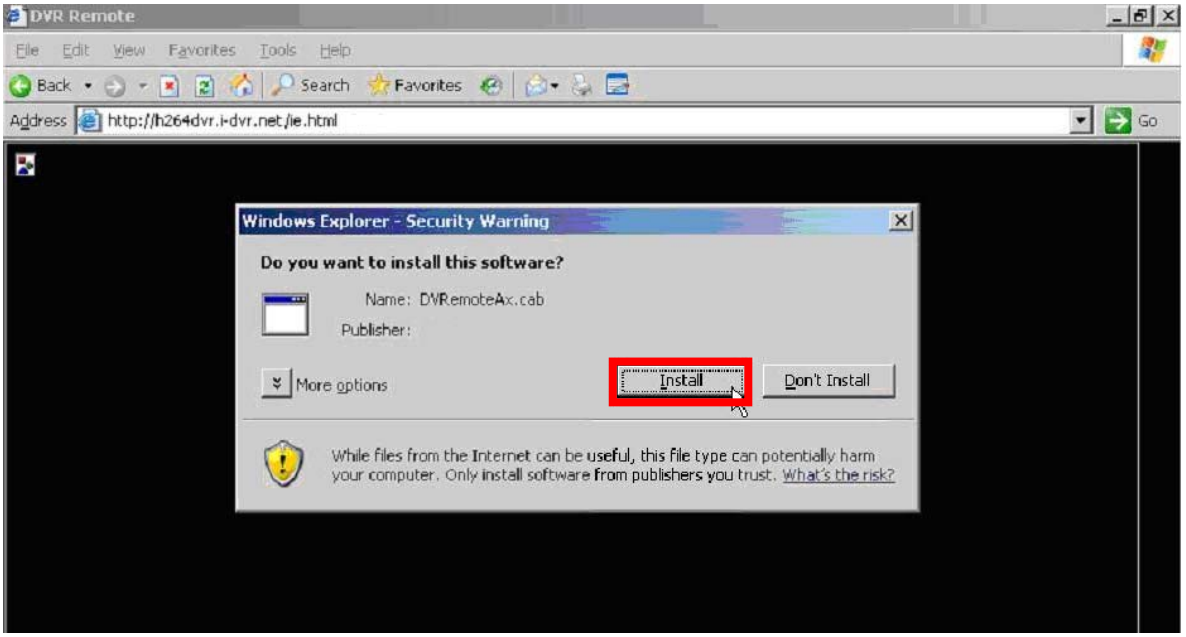
1. When remote monitoring on IE for the first time, an alert message occurs “Install ActiveX control” on the tool bar.


DVR Remote - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://h264dvr.i-dvr.net/ie.html
This site might require the following ActiveX control: 'DVRemoteAx.cab' from Click here to install...
Click here to install the following ActiveX control: 'DVRemoteAx.cab' from

2. Click at this alert message and select “Install ActiveX Control”

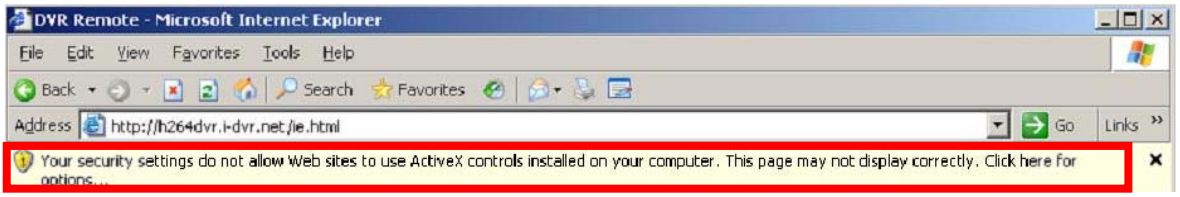

DVR Remote - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://h264dvr.i-dvr.net/ie.html
This site might require the following ActiveX control: 'DVRemoteAx.cab'
Click here to install the following ActiveX contro
Install ActiveX Control...
What's the Risk?
Information Bar Help

3. “Do you want to install this software” alert pops up. Select “Install”

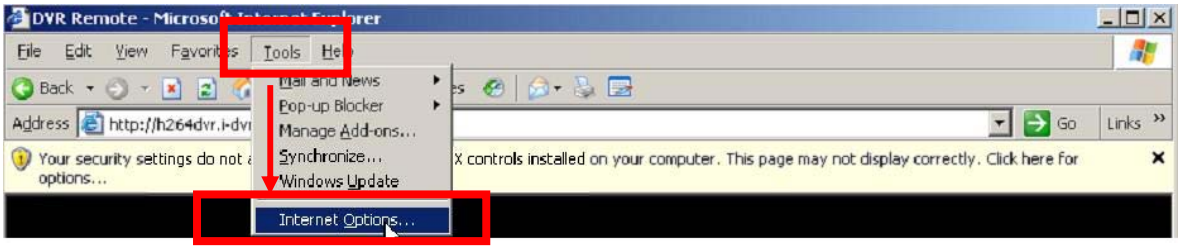

DVR Remote
File Edit View Favorites Tools Help
Back Search Favorites
Address http://h264dvr.i-dvr.net/ie.html
Go
Windows Explorer - Security Warning
Do you want to install this software?
Name: DVRemoteAx.cab
Publisher:
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

4. After installation, IE remote monitoring image appears.

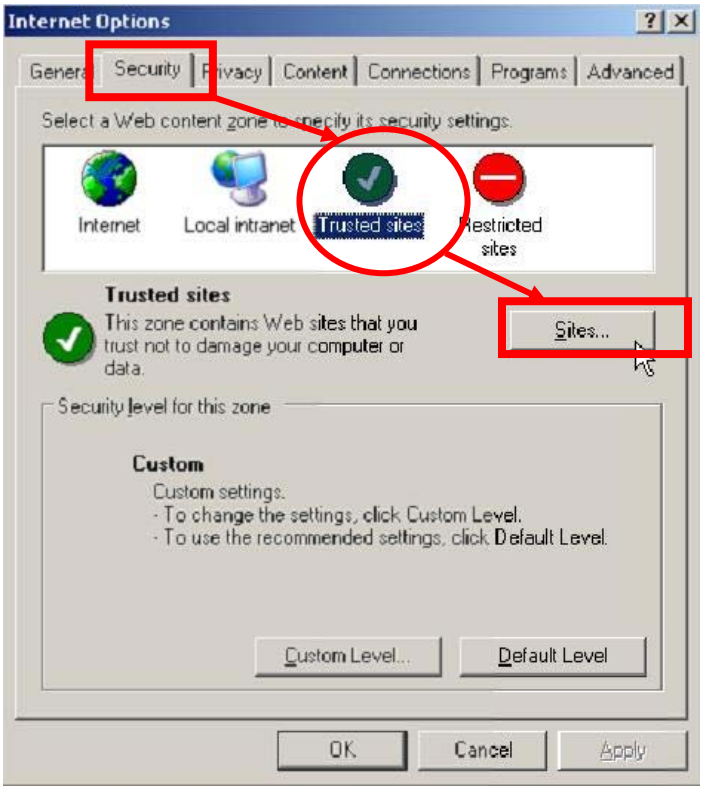
5. If message, “Your security Settings do not allow web sites to use ActiveX controls installed on your computer.” pops on when logging in, please follow the next instruction.


DVR Remote - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://h264dvr.i-dvr.net/ie.html
Go Links
Your security settings do not allow Web sites to use ActiveX controls installed on your computer. This page may not display correctly. Click here for options...

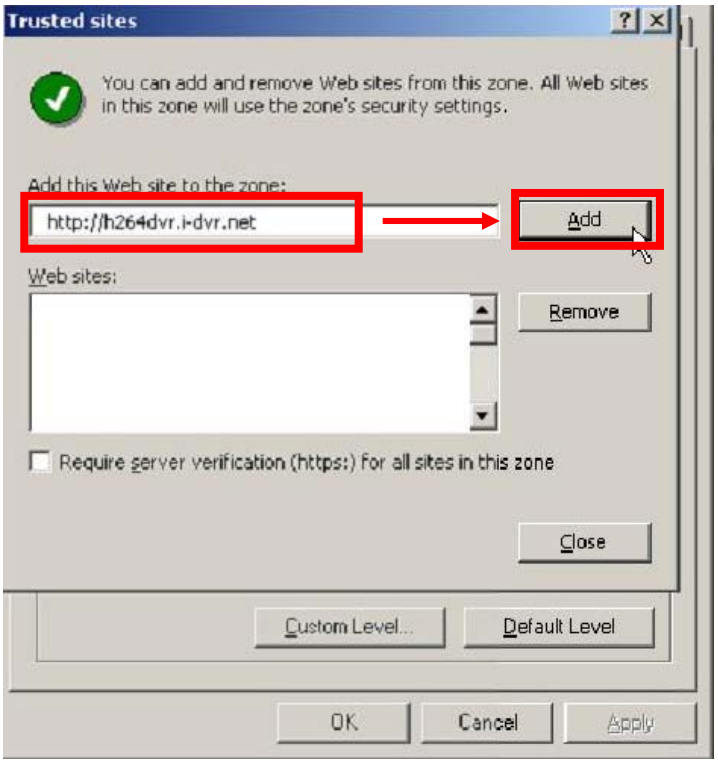
6. First select “Tools” on the tool bar and then select “Internet Options”



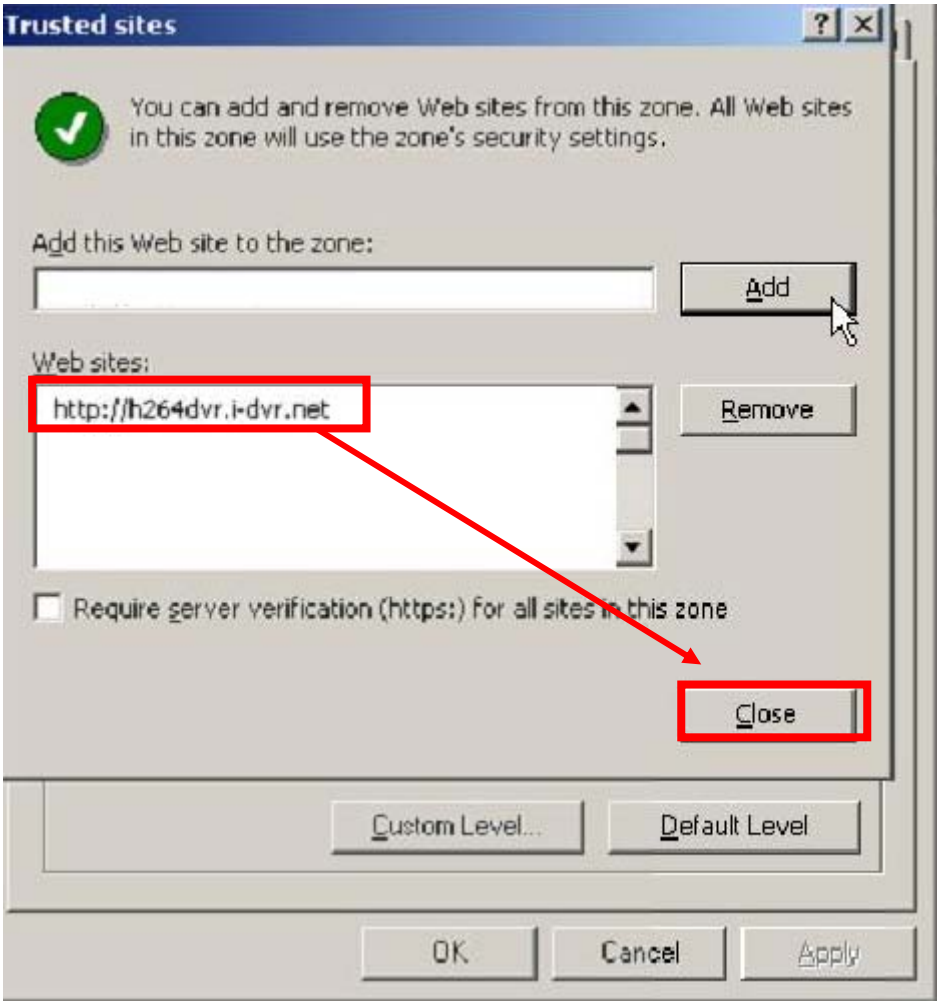
7. Select Security →Trusted Sites → Sites



8. Enter DVR address (This address is only for demonstration. Please use the address depends on the setup of on-site DVR.) into the blanks shown in picture, and then press "add."



9. Newly added website will appear at the trusted web sites list. Press close.



10. Go back to IE window, press refresh button or F5.

DVR Remote - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address
Refresh
Go
Links
Your security settings do not allow Web sites to use ActiveX controls installed on your computer. This page may not display correctly. Click here for options...